Vision Research

An International Journal for Functional Aspects of Vision

Author and Subject Index
Volume 35, 1995

PERGAMON

VISION RESEARCH

Founded by THORNE SHIPLEY

Chairman

H. SPEKREIJSE, Netherlands Ophthalmic Research Institute and Laboratory of Medical Physics and Informatics, University of Amsterdam, P. O. Box 12011, 1100 AA Amsterdam-Zuidoost, The Netherlands [*Tel.* (31) 20 5664584; *Fax* (31) 20 6916521; *Email* e.a.borghols@amc.uva.nl]
Editorial Assistant: ELS BORGHOLS

Vision Research is a journal devoted to the functional aspects of human, vertebrate and invertebrate vision and welcomes papers that address important issues in basic and/or clinical research. The journal is sub-divided into five sections, each with two Section Editors.

Section 1: *Neurobiology*

functional morphology and anatomy
pigments and transduction
the role of neurotransmitters
retinal, subcortical and cortical electrophysiology
physiological optics
plasticity and regeneration of function

YUTAKA FUKUDA, Osaka, Japan
SAMUEL WU, Houston, Tex., U.S.A.

Section 2: *Psychophysics*

binocular, depth, motion, colour, form, pattern, orientation and texture vision
spatial vision and stereopsis
attentive vision
adaptation and aftereffects

DENNIS M. LEVI, Houston, Tex., U.S.A.
DAVIDA TELLER, Seattle, Wash., U.S.A.

Section 3: *Behavioural Physiology and Visuomotor Control*

eye movements, animal psychophysics
oculomotor studies, reading
visual guidance of manipulation, locomotion and navigation
visual behaviour in space

EILEEN KOWLER, New Brunswick, N.J., U.S.A.
CHRISTA NEUMEYER, Mainz, Germany

Section 4: *Computational Vision*

models and theory
visual networks
computer vision

ELLEN C. HILDRETH, Wellesley, Mass., U.S.A.
MICHAEL MORGAN, London, England

Section 5: *Clinical Vision Sciences*

psychophysics, electrophysiology
pathophysiology, neuropharmacology
experimental ophthalmology and neurology
functional (brain) imaging

IVAN BODIS-WOLLNER, Brooklyn, N.Y., U.S.A.
EBERHART ZRENNER, Tübingen, Germany

The Section Editors are assisted by an Editorial Board consisting of:

EMIKO ADACHI-USAMI, Chiba, Japan
EDWARD ADELSON, Cambridge, Mass., U.S.A.
RICHARD ANDERSEN, Pasadena, Calif., U.S.A.
JANETTE ATKINSON, London, England
ANDREW BLAKE, Oxford, England
COLIN BLAKEMORE, Oxford, England
JIM ENRIGHT, La Jolla, Calif., U.S.A.
MANFRED FAHLE, Tübingen, Germany
OLIVIER FAUGERAS, Valbonne, France
GERALD FISHMAN, Chicago, Ill., U.S.A.
WILSON GEISLER, Austin, Tex., U.S.A.
AMIRAM GRINVALD, Rehovot, Israel
WILLEM DE GRIP, Nijmegen, The Netherlands
ANITA HENDRICKSON, Seattle, Wash., U.S.A.
VOLKER HENN, Zürich, Switzerland
ROBERT HESS, Montréal, Canada
ABBIE HUGHES, Victoria, Australia
MICHAEL KASS, St Louis, Miss., U.S.A.
EWEN KING-SMITH, Columbus, Ohio, U.S.A.
CHRISTOF KOCH, Pasadena, Calif., U.S.A.
SIMON LAUGHLIN, Cambridge, England
GORDON LEGGE, Minneapolis, Minn., U.S.A.
JOHN MOLLON, Cambridge, England
CONCETTA MORRONE, Pisa, Italy
DAVID NEWSOME, New Orleans, La, U.S.A.
GÜNTER NIEMEYER, Zürich, Switzerland
CYNTHIA OWSLEY, Birmingham, Ala., U.S.A.
JOHN ROBSON, Cambridge, England
STEVEN SHEVELL, Chicago, Ill., U.S.A.
PAUL SIEVING, Ann Arbor, Mich., U.S.A.
MANDYAM SRINIVASAN, Canberra, Australia
DAN TS'O, Houston, Tex., U.S.A.

Publishing Office: Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. [*Tel.* (01865) 843000; *Fax* (01865) 843010].

Production Editor: Charmaine Watkins.

Subscription and Advertising Offices: Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. [*Tel.* Oxford (01865) 843000; *Fax* (01865) 843010]; Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153, U.S.A.

Frequency: Published semi-monthly. Copyright © 1996 Elsevier Science Ltd

Subscription Rates: Annual Institutional Subscription Rates 1996: North, Central and South America US$1700; Rest of World £1069. Associated Personal Subscription Rates are available on request for those whose institutions are library subscribers. Sterling prices exclude VAT. Non-VAT registered customers in the European Community will be charged the appropriate VAT in addition to the price listed. Prices include postage and insurance and are subject to change without notice.

SECOND CLASS POSTAGE PAID AT NEWARK, NJ AND ADDITIONAL ENTRY POINTS. *Vision Research* (ISSN 0042–6989) is published semi-monthly, two issues per month January to December in one volume, by Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. The annual subscription in the U.S.A. is $1700. *Vision Research* is distributed by Mercury Airfreight International Ltd, 10 Camptown Road, Irvington, NJ 07111-1105. POSTMASTER: Please send address corrections to *Vision Research*, c/o Elsevier Science Inc., 660 White Plains Road, Tarrytown, NY 10591-5153.

Back Issues: Back issues of all previously published volumes are available direct from Elsevier Science offices (Oxford and New York). Complete volumes and single issues can be purchased for 1991–1995. Earlier issues are available in high-quality photo-duplicated copies as complete volumes only.

AUTHOR INDEX

ABADI, R.V.
Pascal, E. and Abadi, R.V. Contour interaction in the presence of congenital nystagmus 35: 1785

ACCARDO, A.P.
Accardo, A.P., Pensiero, S., da Pozzo, S., and Perissutti, P. Characteristics of horizontal smooth pursuit eye movements to sinusoidal stimulation in children of primary school age 35: 539

ADAMS, A.J.
Mutti, D.O., Zadnik, K. and Adams, A.J. The equivalent refractive index of the crystalline lens in childhood 35: 1565

AGGARWALA, K.R.
Kruger, P.B., Mathews, S., Aggarwala, K.R., Yager, D. and Kruger, E.S. Accommodation responds to changing contrast of long, middle and short spectral-waveband components of the retinal image 35: 2415

AHN, S.J.
Ahn, S.J. and Legge, G.E. Psychophysics of reading--XIII. Predictors of magnifier-aided reading speed in low vision 35: 1931
Ahn, S.J., Legge, G.E. and Luebker, A. Printed cards for measuring low-vision reading speed 35: 1939

AIBA, T.S.
Kojima, H. and Aiba, T.S. The spatiotemporal range of inhibitory interaction in flicker detection 35: 3015

AKSIONOFF, E.
Wyatt, H.J., Pola, J., Lustgarten, M. and Aksionoff, E. Optokinetic nystagmus (OKN) suppression by fixation of a stabilized target: the effect of OKN-stimulus predictability 35: 2903

AKUTSU, H.
Akutsu, H. and Legge, G.E. Discrimination of compound gratings: spatial-frequency channels or local features? 35: 2685

ALBANO, J.E.
Albano, J.E. and Marrero, J.A. Binocular interactions in rapid saccadic adaptation 35: 3439

ALBRECHT, D.G.
Geisler, W.S. and Albrecht, D.G. Bayesian analysis of identification performance in monkey visual cortex: nonlinear mechanisms and stimulus certainty 35: 2723

ALEXANDER, K.R.
Alexander, K.R., Derlacki, D.J. and Fishman, G.A. Visual acuity vs letter contrast sensitivity in retinitis pigmentosa 35: 1495

ALLEN, M.
Westbrook, A.M., Crewther, S.G., Liang, H., Beresford, J.A., Allen, M., Keller, I. and Crewther, D.P. Formoguanamine-induced inhibition of deprivation myopia in chick is accompanied by choroidal thinning while retinal function is retained 35: 2075

AMYOT, M.
Trick, G.L., Steinman, S.B. and Amyot, M. Motion perception deficits in glaucomatous optic neuropathy 35: 2225

ANDERSEN, G.J.
Atchley, P. and Andersen, G.J. Discrimination of speed distributions: sensitivity to statistical properties 35: 3131

ANDERSEN, R.A.
Hildreth, E.C., Ando, H., Andersen, R.A. and Treue, S. Recovering three-dimensional structure from motion with surface reconstruction 35: 117

Treue, S., Andersen, R.A., Ando, H. and Hildreth, E.C. Structure-from-motion: perceptual evidence for surface interpolation 35: 139
ANDERSON, E.
Kowler, E., Anderson, E., Dosher, B. and Blaser, E. The role of attention in the programming of saccades 35: 1897
ANDO, H.
Hildreth, E.C., Ando, H., Andersen, R.A. and Treue, S. Recovering three-dimensional structure from motion with surface reconstruction 35: 117
Treue, S., Andersen, R.A., Ando, H. and Hildreth, E.C. Structure-from-motion: perceptual evidence for surface interpolation 35: 139
AREND, L.
Spehar, B., Gilchrist, A. and Arend, L. The critical role of relative luminance relations in White's effect and grating induction 35: 2603
ARTAL, P.
Artal, P., Derrington, A.M. and Colombo, E. Refraction, aliasing, and the absence of motion reversals in peripheral vision 35: 939
ARTIGAS, J.M.
Illueca, C., Capilla, P., Pons, A.M., Seguí, M.M. and Artigas, J.M. Influence of contrast on the recognition of defocused letters: a geometrical model 35: 2127
ASHIDA, H.
Ashida, H. and Osaka, N. Motion aftereffect with flickering test stimuli depends on adapting velocity 35: 1825
ASLIN, R.N.
Skoczenski, A.M. and Aslin, R.N. Assessment of vernier acuity development using the "equivalent intrinsic blur" paradigm 35: 1879
ATCHISON, D.A.
Atchison, D.A. and Smith, G. Continuous gradient index and shell models of the human lens 35: 2529
Atchison, D.A., Collins, M.J., Wildsoet, C.F., Christensen, J. and Waterworth, M.D. Measurement of monochromatic ocular aberrations of human eyes as a function of accommodation by the Howland aberroscope technique 35: 313
Collins, M.J., Wildsoet, C.F. and Atchison, D.A. Monochromatic aberrations and myopia 35: 1157
ATCHLEY, P.
Atchley, P. and Andersen, G.J. Discrimination of speed distributions: sensitivity to statistical properties 35: 3131
ATKINSON, J.
Ehrlich, D.L., Atkinson, J., Braddick, O., Bobier, W. and Durden, K. Reduction of infant myopia: a longitudinal cycloplegic study 35: 1313
AVERBUCH-HELLER, L.
Zivotofsky, A.Z., Averbuch-Heller, L., Thomas, C.W., Das, V.E., Discenna, A.O. and Leigh, R.J. Tracking of illusory target motion: differences between gaze and head responses 35: 3029

BACH, M.
Snowden, R.J., Ullrich, D. and Bach, M. Isolation and characteristics of a steady-state visually-evoked potential in humans related to the motion of a stimulus 35: 1365
BADCOCK, D.R.
Edwards, M. and Badcock, D.R. Global motion perception: no interaction between the first- and second-order motion pathways 35: 2589
BALL, K.
Owsley, C., Ball, K. and Keeton, D.M. Relationship between visual sensitivity and target localization in older adults 35: 579

BARILA, A.M.
Liang, H., Crewther, D.P., Crewther, S.G. and Barila, A.M. A role for photoreceptor outer segments in the induction of deprivation myopia 35: 1217
BARRINGTON, M.
Napper, G.A., Brennan, N.A., Barrington, M., Squires, M.A., Vessey, G.A. and Vingrys, A.J. The duration of normal visual exposure necessary to prevent form deprivation myopia in chicks 35: 1337
BARTMANN, M.
Schaeffel, F., Bartmann, M., Hagel, G. and Zrenner, E. Studies on the role of the retinal dopamine/melatonin system in experimental refractive errors in chickens 35: 1247
BAUER, J.
Gwiazda, J., Bauer, J., Thorn, F. and Held, R. A dynamic relationship between myopia and blur-driven accommodation in school-aged children 35: 1299
BEARD, B.L.
Beard, B.L., Levi, D.M. and Reich, L.N. Perceptual learning in parafoveal vision 35: 1679
BEDELL, H.E.
Bedell, H.E. and Johnson, C.A. The effect of flicker on foveal and peripheral thresholds for oscillatory motion 35: 2179
Chen, S., Bedell, H.E. and Ögmen, H. A target in real motion appears blurred in the absence of other proximal moving targets 35: 2315
Chung, S.T.L. and Bedell, H.E. Effect of retinal image motion on visual acuity and contour interaction in congenital nystagmus 35: 3071
BELTRAMI, G.
Zambarbieri, D., Beltrami, G. and Versino, M. Saccade latency toward auditory targets depends on the relative position of the sound source with respect to the eyes 35: 3305
BEN-AV, M.B.
Ben-Av, M.B. and Sagi, D. Perceptual grouping by similarity and proximity: experimental results can be predicted by intensity autocorrelations 35: 853
Ben-Av, M.B. and Shiffrar, M. Disambiguating velocity estimates across image space 35: 2889
BERESFORD, J.A.
Westbrook, A.M., Crewther, S.G., Liang, H., Beresford, J.A., Allen, M., Keller, I. and Crewther, D.P. Formoguanamine-induced inhibition of deprivation myopia in chick is accompanied by choroidal thinning while retinal function is retained 35: 2075
VAN DEN BERG, A.V.
van den Berg, A.V., van Rijn, L.J. and De Faber, J.Tj.H.N. Excess cyclovergence in patients with intermittent exotropia 35: 3265
VAN DEN BERG, T.J.T.P.
Felius, J., van den Berg, T.J.T.P. and Spekreijse, H. Peripheral cone contrast sensitivity in glaucoma 35: 1791
van den Berg, T.J.T.P. and Ijspeert, J.K. Light scattering in donor lenses 35: 169
BERNARDI, G.
Stanzione, P., Pierantozzi, M., Semprini, R., Tagliati, M., Traversa, R., Peppe, A., Pierelli, F. and Bernardi, G. Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
BEX, P.J.
Bex, P.J., Edgar, G.K. and Smith, A.T. Sharpening of drifting, blurred images 35: 2539
BIEBER, M.L.
Bieber, M.L., Volbrecht, V.J. and Werner, J.S. Spectral efficiency measured by heterochromatic flicker photometry is similar in human infants and adults 35: 1385

BILLOCK, V.A.
Billock, V.A. Cortical simple cells can extract achromatic information from the multiplexed chromatic and achromatic signals in the parvocellular pathway 35: 2359
BILOTTA, J.
Bilotta, J., DeMarco, P.J. Jr. and Powers, M.K. The contributions of ON- and OFF-pathways to contrast sensitivity and spatial resolution in goldfish 35: 103
BIRCH, D.G.
Hood, D.C. and Birch, D.G. Phototransduction in human cones measured using the *a*-wave of the ERG 35: 2801
BISCALDI, M.
Weber, H., Biscaldi, M. and Fischer, B. Intertrial effects of randomization on saccadic reaction times in human observers 35: 2615
BLAKE, A.
Eagle, R.A. and Blake, A. Two-dimensional constraints on three-dimensional structure from motion tasks 35: 2927
BLAKE, R.
Yang, Y. and Blake, R. On the accuracy of surface reconstruction from disparity interpolation 35: 949
BLAKEMORE, C.
Kubová, Z., Kuba, M., Spekreijse, H. and Blakemore, C. Contrast dependence of motion-onset and pattern-reversal evoked potentials 35: 197
Sengpiel, F., Blakemore, C. and Harrad, R. Interocular suppression in the primary visual cortex: a possible neural basis of binocular rivalry 35: 179
BLASER, E.
Kowler, E. and Blaser, E. The accuracy and precision of saccades to small and large targets 35: 1741
Kowler, E., Anderson, E., Dosher, B. and Blaser, E. The role of attention in the programming of saccades 35: 1897
BOBIER, W.
Ehrlich, D.L., Atkinson, J., Braddick, O., Bobier, W. and Durden, K. Reduction of infant myopia: a longitudinal cycloplegic study 35: 1313
BONAVENTURE, N.
Jardon, B. and Bonaventure, N. Are retinal or mesencephalic dopaminergic systems involved in monocular optokinetic nystagmus asymmetry in frog? 35: 381
Jardon, B. and Bonaventure, N. Different effects of dopamine and Piribedil (a dopamine D_2 agonist) on frog monocular optokinetic nystagmus asymmetry 35: 2665
BONNET, C.
Dresp, B. and Bonnet, C. Subthreshold summation with illusory contours 35: 1071
BOOTSMA, A.
Cornelissen, F.W., Bootsma, A. and Kooijman, A.C. Object perception by visually impaired people at different light levels 35: 161
BOUCART, M.
Lorenceau, J. and Boucart, M. Effects of a static textured background on motion integration 35: 2303
BOWEN, R.W.
Bowen, R.W. Isolation and interaction of ON and OFF pathways in human vision: pattern-polarity effects on contrast discrimination 35: 2479
BRADDICK, O.
Ehrlich, D.L., Atkinson, J., Braddick, O., Bobier, W. and Durden, K. Reduction of infant myopia: a longitudinal cycloplegic study 35: 1313
BRADLEY, A.
Winn, B., Bradley, A., Strang, N.C., McGraw, P.V. and Thibos, L.N. Reversals of the colour-depth illusion explained by ocular chromatic aberration 35: 2675

BRADY, N.
Brady, N. and Field, D.J. What's constant in contrast constancy? The effects of scaling on the perceived contrast of bandpass patterns 35: 739
BRAJE, W.L.
Braje, W.L., Tjan, B.S. and Legge, G.E. Human efficiency for recognizing and detecting low-pass filtered objects 35: 2955
Tjan, B.S., Braje, W.L., Legge, G.E. and Kersten, D. Human efficiency for recognizing 3-D objects in luminance noise 35: 3053
BRAVO, M.J.
Bravo, M.J. and Watamaniuk, S.N.J. Evidence for two speed signals: a coarse local signal for segregation and a precise global signal for discrimination 35: 1691
BRENNAN, N.A.
Napper, G.A., Brennan, N.A., Barrington, M., Squires, M.A., Vessey, G.A. and Vingrys, A.J. The duration of normal visual exposure necessary to prevent form deprivation myopia in chicks 35: 1337
BRENNER, E.
Cornelissen, F.W. and Brenner, E. Simultaneous colour constancy revisited: an analysis of viewing strategies 35: 2431
BRESSAN, P.
Bressan, P. A closer look at the dependence of neon colour spreading on wavelength and illuminance 35: 375
BRIDGEMAN, B.
Deubel, H. and Bridgeman, B. Fourth Purkinje image signals reveal eye-lens deviations and retinal image distortions during saccades 35: 529
Deubel, H. and Bridgeman, B. Perceptual consequences of ocular lens overshoot during saccadic eye movements 35: 2897
BROERSE, J.
Broerse, J. and O'Shea, R.P. Local and global factors in spatially-contingent coloured aftereffects 35: 207
BROWN, A.M.
Brown, A.M., Lindsey, D.T., McSweeney, E.M. and Walters, M.M. Infant luminance and chromatic contrast sensitivity: optokinetic nystagmus data on 3-month-olds 35: 3145
BROWN, J.M.
Greene, H.H. and Brown, J.M. The effect of nearby luminance contrast polarity on color boundary localization 35: 2767
BRUNO, P.
Bruno, P., Inchingolo, P. and van der Steen, J. Unequal saccades produced by aniseikonic patterns: a model approach 35: 3473
van der Steen, J. and Bruno, P. Unequal amplitude saccades produced by aniseikonic patterns: effects of viewing distance 35: 3459
BUCCI, M.P.
Kapoula, Z., Eggert, T. and Bucci, M.P. Immediate saccade amplitude disconjugacy induced by unequal images 35: 3505
BUCHSBAUM, G.
Courtney, S.M., Finkel, L.H. and Buchsbaum, G. Network simulations of retinal and cortical contributions to color constancy 35: 413
BUCKLEY, D.
Frisby, J.P., Buckley, D., Wishart, K.A., Porrill, J., Gårding, J. and Mayhew, J.E.W. Interaction of stereo and texture cues in the perception of three-dimensional steps 35: 1463
BURBECK, C.A.
Burbeck, C.A. and Pizer, S.M. Object representation by cores: identifying and representing primitive spatial regions 35: 1917

BURNS, S.A.
Wu, S., Burns, S.A. and Elsner, A.E. Effects of flicker adaptation and temporal gain control on the flicker ERG 35: 2943

CALLENDER, M.G.
Irving, E.L., Callender, M.G. and Sivak, J.G. Inducing ametropias in hatchling chicks by defocus--aperture effects and cylindrical lenses 35: 1165
Pardue, M.T., Luer, C.A., Callender, M.G., Chou, B.R. and Sivak, J.G. The absence of a photopic influence on the refractive development of the embryonic eye of the clearnose skate *(Raja eglanteria)* 35: 1675

CAPEHART, C.
Stone, R.A., Lin, T., Desai, D. and Capehart, C. Photoperiod, early post-natal eye growth, and visual deprivation 35: 1195

CAPILLA, P.
Illueca, C., Capilla, P., Pons, A.M., Seguí, M.M. and Artigas, J.M. Influence of contrast on the recognition of defocused letters: a geometrical model 35: 2127

CARNEY, T.
Carney, T., Silverstein, D.A. and Klein, S.A. Vernier acuity during image rotation and translation: visual performance limits 35: 1951

CARPENTER, N.
Mash, C., Dobson, V. and Carpenter, N. Interobserver agreement for measurement of grating acuity and interocular acuity differences with the Teller acuity card procedure 35: 303

CARPENTER, R.H.S.
Kinsler, V. and Carpenter, R.H.S. Saccadic eye movements while reading music 35: 1447
Merrison, A.F.A. and Carpenter, R.H.S. "Express" smooth pursuit 35: 1459

CASTET, E.
Castet, E. Apparent speed of sampled motion 35: 1375

CAVANAGH, P.
Cavanagh, P., Saida, S. and Rivest, J. The contribution of color to depth perceived from motion parallax 35: 1871

CHAPARRO, A.
Chaparro, A., Stromeyer, C.F. III, Chen, G. and Kronauer, R.E. Human cones appear to adapt at low light levels: measurements on the red-green detection mechanism 35: 3103

CHASE, S.
Heinemann, E.G. and Chase, S. A quantitative model for simultaneous brightness induction 35: 2007

CHEN, G.
Chaparro, A., Stromeyer, C.F. III, Chen, G. and Kronauer, R.E. Human cones appear to adapt at low light levels: measurements on the red-green detection mechanism 35: 3103

CHEN, S.
Chen, S., Bedell, H.E. and Ögmen, H. A target in real motion appears blurred in the absence of other proximal moving targets 35: 2315

CHICHILNISKY, E.-J.
Chichilnisky, E.-J. and Wandell, B.A. Photoreceptor sensitivity changes explain color appearance shifts induced by large uniform backgrounds in dichoptic matching 35: 239

CHOU, B.R.
Pardue, M.T., Luer, C.A., Callender, M.G., Chou, B.R. and Sivak, J.G. The absence of a photopic influence on the refractive development of the embryonic eye of the clearnose skate *(Raja eglanteria)* 35: 1675

CHRISTENSEN, A.M.
Wallman, J., Wildsoet, C., Xu, A., Gottlieb, M.D., Nickla, D.L., Marran, L., Krebs, W. and Christensen, A.M. Moving the retina: choroidal modulation of refractive state 35: 37
CHRISTENSEN, J.
Atchison, D.A., Collins, M.J., Wildsoet, C.F., Christensen, J. and Waterworth, M.D. Measurement of monochromatic ocular aberrations of human eyes as a function of accommodation by the Howland aberroscope technique 35: 313
CHUBB, C.
Sutter, A., Sperling, G. and Chubb, C. Measuring the spatial frequency selectivity of second-order texture mechanisms 35: 915
CHUNG, S.T.L.
Chung, S.T.L. and Bedell, H.E. Effect of retinal image motion on visual acuity and contour interaction in congenital nystagmus 35: 3071
CIDECIYAN, A.V.
Hood, D.C., Cideciyan, A.V., Román, A.J. and Jacobson, S.G. Enhanced S cone syndrome: evidence for an abnormally large number of S cones 35: 1473
CITEK, K.
Ebenholtz, S.M. and Citek, K. Absence of adaptive plasticity after voluntary vergence and accommodation 35: 2773
CLARK, C.D.
Hogben, J.H., Rodino, I.S., Clark, C.D. and Pratt, C. A comparison of temporal integration in children with a specific reading disability and normal readers 35: 2067
CLIFFORD, C.W.G.
Johnston, A. and Clifford, C.W.G. A unified account of three apparent motion illusions 35: 1109
Johnston, A. and Clifford, C.W.G. Perceived motion of contrast-modulated gratings: predictions of the Multi-channel Gradient Model and the role of full-wave rectification 35: 1771
COLE, R.
Watanabe, T. and Cole, R. Propagation of local motion correspondence 35: 2853
COLLEWIJN, H.
Collewijn, H., Erkelens, C.J. and Steinman, R.M. Voluntary binocular gaze-shifts in the plane of regard: dynamics of version and vergence 35: 3335
Epelboim, J., Steinman, R.M., Kowler, E., Edwards, M., Pizlo, Z., Erkelens, C.J. and Collewijn, H. The function of visual search and memory in sequential looking tasks 35: 3401
COLLINS, M.J.
Atchison, D.A., Collins, M.J., Wildsoet, C.F., Christensen, J. and Waterworth, M.D. Measurement of monochromatic ocular aberrations of human eyes as a function of accommodation by the Howland aberroscope technique 35: 313
Collins, M., Davis, B. and Wood, J. Microfluctuations of steady-state accommodation and the cardiopulmonary system 35: 2491
Collins, M.J., Wildsoet, C.F. and Atchison, D.A. Monochromatic aberrations and myopia 35: 1157
COLOMBO, E.
Artal, P., Derrington, A.M. and Colombo, E. Refraction, aliasing, and the absence of motion reversals in peripheral vision 35: 939
COOK, M.
Hine, T.J., Cook, M. and Rogers, G.T. An illusion of relative motion dependent upon spatial frequency and orientation 35: 3093
CORNELISSEN, F.W.
Cornelissen, F.W. and Brenner, E. Simultaneous colour constancy revisited: an analysis of viewing strategies 35: 2431

Cornelissen, F.W., Bootsma, A. and Kooijman, A.C. Object perception by visually impaired people at different light levels 35: 161
CORNELISSEN, P.
Cornelissen, P., Richardson, A., Mason, A., Fowler, S. and Stein, J. Contrast sensitivity and coherent motion detection measured at photopic luminance levels in dyslexics and controls 35: 1483
CORNELL, L.M.
McBrien, N.A., Moghaddam, H.O., Cottriall, C.L., Leech, E.M. and Cornell, L.M. The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks 35: 1141
CORNILLEAU-PÉRÈS, V.
Dijkstra, T.M.H., Cornilleau-Pérès, V., Gielen, C.C.A.M. and Droulez, J. Perception of three-dimensional shape from ego- and object-motion: comparison between small- and large-field stimuli 35: 453
COTTRIALL, C.L.
McBrien, N.A., Moghaddam, H.O., Cottriall, C.L., Leech, E.M. and Cornell, L.M. The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks 35: 1141
COURTNEY, S.M.
Courtney, S.M., Finkel, L.H. and Buchsbaum, G. Network simulations of retinal and cortical contributions to color constancy 35: 413
COVA, A.
Cova, A. and Galiana, H.L. Providing distinct vergence and version dynamics in a bilateral oculomotor network 35: 3359
CREWTHER, D.P.
Liang, H., Crewther, D.P., Crewther, S.G. and Barila, A.M. A role for photoreceptor outer segments in the induction of deprivation myopia 35: 1217
Westbrook, A.M., Crewther, S.G., Liang, H., Beresford, J.A., Allen, M., Keller, I. and Crewther, D.P. Formoguanamine-induced inhibition of deprivation myopia in chick is accompanied by choroidal thinning while retinal function is retained 35: 2075
CREWTHER, S.G.
Liang, H., Crewther, D.P., Crewther, S.G. and Barila, A.M. A role for photoreceptor outer segments in the induction of deprivation myopia 35: 1217
Westbrook, A.M., Crewther, S.G., Liang, H., Beresford, J.A., Allen, M., Keller, I. and Crewther, D.P. Formoguanamine-induced inhibition of deprivation myopia in chick is accompanied by choroidal thinning while retinal function is retained 35: 2075
CRONER, L.J.
Croner, L.J. and Kaplan, E. Receptive fields of P and M ganglion cells across the primate retina 35: 7
CURTHOYS, I.S.
Smith, S.T., Curthoys, I.S. and Moore, S.T. The human ocular torsion position response during yaw angular acceleration 35: 2045

DA POZZO, S.
Accardo, A.P., Pensiero, S., da Pozzo, S., and Perissutti, P. Characteristics of horizontal smooth pursuit eye movements to sinusoidal stimulation in children of primary school age 35: 539
DAS, V.E.
Zivotofsky, A.Z., Averbuch-Heller, L., Thomas, C.W., Das, V.E., Discenna, A.O. and Leigh, R.J. Tracking of illusory target motion: differences between gaze and head responses 35: 3029

DASSONVILLE, P.
Dassonville, P., Schlag, J. and Schlag-Rey, M. The use of egocentric and exocentric location cues in saccadic programming 35: 2191
DAVIS, B.
Collins, M., Davis, B. and Wood, J. Microfluctuations of steady-state accommodation and the cardiopulmonary system 35: 2491
DAVIS, E.T.
Davis, E.T., Yager, D., King, R.A. and Kirkland, B.A. A labeled lines explanation of the perceived spatial frequency of moderate-, near-threshold- and zero-contrast spatial patterns 35: 1025
DE BECKER, I.
Tremblay, F., Laroche, R.G. and De Becker, I. The electroretinographic diagnosis of the incomplete form of congenital stationary night blindness 35: 2383
DE BRUYN, B.
De Bruyn, B. Asymmetric spatial distributions of motion vectors yield characteristic errors in direction judgements 35: 1541
DE FABER, J.TJ.H.N.
van den Berg, A.V., van Rijn, L.J. and De Faber, J.Tj.H.N. Excess cyclovergence in patients with intermittent exotropia 35: 3265
DELL'OSSO, L.F.
Dell'Osso, L.F. and Williams R.W. Ocular motor abnormalities in achiasmatic mutant Belgian sheepdogs: unyoked eye movements in a mammal 35: 109
Seidman, S.H., Leigh, R.J., Tomsak, R.L., Grant, M.P. and Dell'Osso, L.F. Dynamic properties of the human vestibulo-ocular reflex during head rotations in roll 35: 679
Sheth, N.V., Dell'Osso, L.F., Leigh, R.J., Van Doren, C.L. and Peckham, H.P. The effects of afferent stimulation on congenital nystagmus foveation periods 35: 2371
DELORI, F.
Gorrand, J.-M. and Delori, F. A reflectometric technique for assessing photoreceptor alignment 35: 999
DELUCIA, P.R.
Young, R.S.L., Kimura, E. and DeLucia, P.R. A pupillometric correlate of scotopic visual acuity 35: 2235
DEMARCO, P.J. JR.
Bilotta, J., DeMarco, P.J. Jr. and Powers, M.K. The contributions of ON- and OFF-pathways to contrast sensitivity and spatial resolution in goldfish 35: 103
DERLACKI, D.J.
Alexander, K.R., Derlacki, D.J. and Fishman, G.A. Visual acuity vs letter contrast sensitivity in retinitis pigmentosa 35: 1495
DERRINGTON, A.M.
Artal, P., Derrington, A.M. and Colombo, E. Refraction, aliasing, and the absence of motion reversals in peripheral vision 35: 939
DESAI, D.
Stone, R.A., Lin, T., Desai, D. and Capehart, C. Photoperiod, early post-natal eye growth, and visual deprivation 35: 1195
DEUBEL, H.
Deubel, H. and Bridgeman, B. Fourth Purkinje image signals reveal eye-lens deviations and retinal image distortions during saccades 35: 529
Deubel, H. and Bridgeman, B. Perceptual consequences of ocular lens overshoot during saccadic eye movements 35: 2897
Deubel, H. Separate adaptive mechanisms for the control of reactive and volitional saccadic eye movements 35: 3529
Straube, A. and Deubel, H. Rapid gain adaptation affects the dynamics of saccadic eye movements in humans 35: 3451

DIJKSTRA, T.M.H.
Dijkstra, T.M.H., Cornilleau-Pérès, V., Gielen, C.C.A.M. and Droulez, J. Perception of three-dimensional shape from ego- and object-motion: comparison between small- and large-field stimuli 35: 453
DIMITROV, G.
Mateeff, S., Dimitrov, G. and Hohnsbein, J. Temporal thresholds and reaction time to changes in velocity of visual motion 35: 355
DISCENNA, A.O.
Zivotofsky, A.Z., Averbuch-Heller, L., Thomas, C.W., Das, V.E., Discenna, A.O. and Leigh, R.J. Tracking of illusory target motion: differences between gaze and head responses 35: 3029
DJUPSUND, K.
Donner, K., Koskelainen, A., Djupsund, K. and Hemilä, S. Changes in retinal time scale under background light: observations on rods and ganglion cells in the frog retina 35: 2255
DOBSON, V.
Mash, C., Dobson, V. and Carpenter, N. Interobserver agreement for measurement of grating acuity and interocular acuity differences with the Teller acuity card procedure 35: 303
DONNER, K.
Donner, K., Koskelainen, A., Djupsund, K. and Hemilä, S. Changes in retinal time scale under background light: observations on rods and ganglion cells in the frog retina 35: 2255
DOSHER, B.
Kowler, E., Anderson, E., Dosher, B. and Blaser, E. The role of attention in the programming of saccades 35: 1897
DOUGHERTY, R.F.
Mayer, M.J., Dougherty, R.F. and Hu, L.-t. A covariance structure analysis of flicker sensitivity 35: 1575
DOWLING, W.J.
Ziegler, L.R. and Dowling, W.J. The hierarchical nature of perceiving direction of motion in depth from optic flow 35: 1435
DRAIN, H.M.
Farah, M.J., Wilson, K.D., Drain, H.M. and Tanaka, J.R. The inverted face inversion effect in prosopagnosia: evidence for mandatory, face-specific perceptual mechanisms 35: 2089
DRESP, B.
Dresp, B. and Bonnet, C. Subthreshold summation with illusory contours 35: 1071
Morgan, M.J. and Dresp, B. Contrast detection facilitation by spatially separated targets and inducers 35: 1019
DROULEZ, J.
Dijkstra, T.M.H., Cornilleau-Pérès, V., Gielen, C.C.A.M. and Droulez, J. Perception of three-dimensional shape from ego- and object-motion: comparison between small- and large-field stimuli 35: 453
DUFFY, C.J.
Duffy, C.J. and Wurtz, R.H. Mechanism of the illusory transformation of optic flow fields 35: 985
DURDEN, K.
Ehrlich, D.L., Atkinson, J., Braddick, O., Bobier, W. and Durden, K. Reduction of infant myopia: a longitudinal cycloplegic study 35: 1313

EAGLE, R.A.
Eagle, R.A. and Blake, A. Two-dimensional constraints on three-dimensional structure from motion tasks 35: 2927

EASTMAN, K.E.
Hock, H.S. and Eastman, K.E. Context effects on perceived position: sustained and transient temporal influences on spatial interactions 35: 635
EBENHOLTZ, S.M.
Ebenholtz, S.M. and Citek, K. Absence of adaptive plasticity after voluntary vergence and accommodation 35: 2773
EDELMAN, S.
Fahle, M., Edelman, S. and Poggio, T. Fast perceptual learning in hyperacuity 35: 3003
EDGAR, G.K.
Bex, P.J., Edgar, G.K. and Smith, A.T. Sharpening of drifting, blurred images 35: 2539
EDWARDS, D.P.
Edwards, D.P., Purpura, K.P. and Kaplan, E. Contrast sensitivity and spatial frequency response of primate cortical neurons in and around the cytochrome oxidase blobs 35: 1501
EDWARDS, M.
Edwards, M. and Badcock, D.R. Global motion perception: no interaction between the first- and second-order motion pathways 35: 2589
Epelboim, J., Steinman, R.M., Kowler, E., Edwards, M., Pizlo, Z., Erkelens, C.J. and Collewijn, H. The function of visual search and memory in sequential looking tasks 35: 3401
EGGERT, T.
Eggert, T. and Kapoula, Z. Position dependency of rapidly induced saccade disconjugacy 35: 3493
Kapoula, Z., Eggert, T. and Bucci, M.P. Immediate saccade amplitude disconjugacy induced by unequal images 35: 3505
EHRLICH, D.L.
Ehrlich, D.L., Atkinson, J., Braddick, O., Bobier, W. and Durden, K. Reduction of infant myopia: a longitudinal cycloplegic study 35: 1313
EJIMA, Y.
Ohtani, Y., Ido, K. and Ejima, Y. Effects of luminance contrast and phase difference on motion assimilation for sinusoidal gratings 35: 2277
ELSNER, A.E.
Wu, S., Burns, S.A. and Elsner, A.E. Effects of flicker adaptation and temporal gain control on the flicker ERG 35: 2943
ENRIGHT, J.T.
Enright, J.T. The non-visual impact of eye orientation on eye-hand coordination 35: 1611
EPELBAUM, M.
Epelbaum, M. and Teller, D.Y. Infant eye movement asymmetries: temporal-nasal asymmetry is reversed at isoluminance in 2-month-olds 35: 1889
EPELBOIM, J.
Epelboim, J., Steinman, R.M., Kowler, E., Edwards, M., Pizlo, Z., Erkelens, C.J. and Collewijn, H. The function of visual search and memory in sequential looking tasks 35: 3401
Pizlo, Z., Rosenfeld, A. and Epelboim, J. An exponential pyramid model of the time-course of size processing 35: 1089
ERENS, R.G.F.
de Haan, E., Erens, R.G.F. and Noest, A.J. Shape from shaded random surfaces 35: 2985
ERKELENS, C.J.
Collewijn, H., Erkelens, C.J. and Steinman, R.M. Voluntary binocular gaze-shifts in the plane of regard: dynamics of version and vergence 35: 3335
Epelboim, J., Steinman, R.M., Kowler, E., Edwards, M., Pizlo, Z., Erkelens, C.J. and Collewijn, H. The function of visual search and memory in sequential looking tasks 35: 3401
Erkelens, C.J. and Sloot, O.B. Initial directions and landing positions of binocular saccades 35: 3297

FAHLE, M.
Fahle, M. and Koch, C. Spatial displacement, but not temporal asynchrony, destroys figural binding 35: 491
Fahle, M. and Westheimer, G. On the time-course of inhibition in the stereoscopic perception of rows of dots 35: 1393
Fahle, M., Edelman, S. and Poggio, T. Fast perceptual learning in hyperacuity 35: 3003
Fahle, M. Perception of oppositely moving verniers and spatio-temporal interpolation 35: 925
Harris, J.P. and Fahle, M. The detection and discrimination of spatial offsets 35: 51
FARAH, M.J.
Farah, M.J., Wilson, K.D., Drain, H.M. and Tanaka, J.R. The inverted face inversion effect in prosopagnosia: evidence for mandatory, face-specific perceptual mechanisms 35: 2089
FAUBERT, J.
Faubert, J. and von Grünau, M. The influence of two spatially distinct primers and attribute priming on motion induction 35: 3119
Faubert, J. Colour induced stereopsis in images with achromatic information and only one other colour 35: 3161
FELIUS, J.
Felius, J., van den Berg, T.J.T.P. and Spekreijse, H. Peripheral cone contrast sensitivity in glaucoma 35: 1791
FIELD, D.J.
Brady, N. and Field, D.J. What's constant in contrast constancy? The effects of scaling on the perceived contrast of bandpass patterns 35: 739
Hess, R.F. and Field, D.J. Contour integration across depth 35: 1699
FINDL, O.
Lue, C.-L., Hansen, R.M., Reisner, D.S., Findl, O., Petersen, R.A. and Fulton, A.B. The course of myopia in children with mild retinopathy of prematurity 35: 1329
FINKEL, L.H.
Courtney, S.M., Finkel, L.H. and Buchsbaum, G. Network simulations of retinal and cortical contributions to color constancy 35: 413
FIORAVANTI, F.
Fioravanti, F., Inchingolo, P., Pensiero, S. and Spanio, M. Saccadic eye movement conjugation in children 35: 3217
FISCHER, B.
Weber, H. and Fischer, B. Gap duration and location of attention focus modulate the occurrence of left/right asymmetries in the saccadic reaction times of human subjects 35: 987
Weber, H., Biscaldi, M. and Fischer, B. Intertrial effects of randomization on saccadic reaction times in human observers 35: 2615
FISHMAN, G.A.
Alexander, K.R., Derlacki, D.J. and Fishman, G.A. Visual acuity vs letter contrast sensitivity in retinitis pigmentosa 35: 1495
FITZGERALD, M.E.C.
Reiner, A., Shih, Y.-F. and Fitzgerald, M.E.C. The relationship of choroidal blood flow and accommodation to the control of ocular growth 35: 1227
FOSTER, D.H.
Foster, D.H. and Westland, S. Orientation contrast vs orientation in line-target detection 35: 733
FOWLER, S.
Cornelissen, P., Richardson, A., Mason, A., Fowler, S. and Stein, J. Contrast sensitivity and coherent motion detection measured at photopic luminance levels in dyslexics and controls 35: 1483

FREEMAN, D.C.
Livingstone, M.S., Nori, S., Freeman, D.C. and Hubel, D.H. Stereopsis and binocularity in the squirrel monkey 35: 345
FREEMAN, T.C.A.
Meese, T.S., Harris, M.G. and Freeman, T.C.A. Speed gradients and the perception of surface slant: analysis is two-dimensional not one-dimensional 35: 2879
FRISBY, J.P.
Frisby, J.P., Buckley, D., Wishart, K.A., Porrill, J., Gårding, J. and Mayhew, J.E.W. Interaction of stereo and texture cues in the perception of three-dimensional steps 35: 1463
Gårding, J., Porrill, J., Mayhew, J.E.W. and Frisby, J.P. Stereopsis, vertical disparity and relief transformations 35: 703
FRISÉN, L.
Frisén. L. High-pass resolution perimetry: central-field neuroretinal correlates 35: 293
FRISHMAN, L.J.
Frishman, L.J. and Sieving, P.A. Evidence for two sites of adaptation affecting the dark-adapted ERG of cats and primates 35: 435
FRÖHLICH, E.
Fröhlich, E., Negishi, K. and Wagner, H.-J. Patterns of rod proliferation in deep-sea fish retinae 35: 1799
FROHMAN, E.M.
Takagi, M., Frohman, E.M. and Zee, D.S. Gap-overlap effects on latencies of saccades, vergence and combined vergence-saccades in humans 35: 3373
FULD, K.
Kulp, T.D. and Fuld, K. The prediction of hue and saturation for non-spectral lights 35: 2967
FULTON, A.B.
Lue, C.-L., Hansen, R.M., Reisner, D.S., Findl, O., Petersen, R.A. and Fulton, A.B. The course of myopia in children with mild retinopathy of prematurity 35: 1329
FUNAHASHI, Y.
Ohshima, S., Yagi, T. and Funahashi, Y. Computational studies on the interaction between red cone and H1 horizontal cell 35: 149

GALIANA, H.L.
Cova, A. and Galiana, H.L. Providing distinct vergence and version dynamics in a bilateral oculomotor network 35: 3359
GALLIE, B.
Reed, M.J., Steinbach, M.J., Ono, H., Kraft, S. and Gallie, B. Alignment ability of strabismic and eye enucleated subjects on the horizontal and oblique meridians 35: 2523
GARCÍA-BELTRÁN, A.
Romero, J., Nieves, J.L. and García-Beltrán, A. Human processing of colour information in the chromatic-frequency domain 35: 867
GÅRDING, J.
Frisby, J.P., Buckley, D., Wishart, K.A., Porrill, J., Gårding, J. and Mayhew, J.E.W. Interaction of stereo and texture cues in the perception of three-dimensional steps 35: 1463
Gårding, J., Porrill, J., Mayhew, J.E.W. and Frisby, J.P. Stereopsis, vertical disparity and relief transformations 35: 703
GEGENFURTNER, K.R.
Gegenfurtner, K.R. and Hawken, M.J. Temporal and chromatic properties of motion mechanisms 35: 1547
Kiper, D.C., Gegenfurtner, K.R. and Kiorpes, L. Spatial frequency channels in experimentally strabismic monkeys revealed by oblique masking 35: 2737

GEISLER, W.S.
Geisler, W.S. and Albrecht, D.G. Bayesian analysis of identification performance in monkey visual cortex: nonlinear mechanisms and stimulus certainty 35: 2723
Hahn, L.W. and Geisler, W.S. Adaptation mechanisms in spatial vision--I. Bleaches and backgrounds 35: 1585
Kortum, P.T. and Geisler, W.S. Adaptation mechanisms in spatial vision--II. Flash thresholds and background adaptation 35: 1595
GERI, G.A.
Geri, G.A., Lyon, D.R. and Zeevi, Y.Y. Preattentive equivalence of multicomponent Gabor textures in the central and peripheral visual field 35: 495
GIELEN, C.C.A.M.
Dijkstra, T.M.H., Cornilleau-Pérès, V., Gielen, C.C.A.M. and Droulez, J. Perception of three-dimensional shape from ego- and object-motion: comparison between small- and large-field stimuli 35: 453
Minken, A.W.H., Gielen, C.C.A.M. and Van Gisbergen, J.A.M. An alternative three-dimensional interpretation of Hering's equal-innervation law for version and vergence eye movements 35: 93
GILBERT, C.D.
Volchan, E. and Gilbert, C.D. Interocular transfer of receptive field expansion in cat visual cortex 35: 1
GILCHRIST, A.
Spehar, B., Gilchrist, A. and Arend, L. The critical role of relative luminance relations in White's effect and grating induction 35: 2603
GILMARTIN, B.
Gilmartin, B. and Winfield, N.R. The effect of topical ß-adrenoceptor antagonists on accommodation in emmetropia and myopia 35: 1305
GLASER, D.A.
Kumar, T. and Glaser, D.A. Depth discrimination of a crowded line is better when it is more luminant than the lines crowding it 35: 657
GLASSER, A.
Glasser, A. and Howland, H.C. *In vitro* changes in back vertex distance of chick and pigeon lenses: species differences and the effects of aging 35: 1813
Glasser, A., Murphy, C.J., Troilo, D. and Howland, H.C. The mechanism of lenticular accommodation in chicks 35: 1525
Li, T., Troilo, D., Glasser, A. and Howland, H.C. Constant light produces severe corneal flattening and hyperopia in chickens 35: 1203
Troilo, D., Li, T., Glasser, A. and Howland, H.C. Differences in eye growth and the response to visual deprivation in different strains of chicken 35: 1211
GOREA, A.
Gorea, A. Spatiotemporal characterization of a Fourier and Non-Fourier Motion System 35: 907
GORRAND, J.-M.
Gorrand, J.-M. and Delori, F. A reflectometric technique for assessing photoreceptor alignment 35: 999
GOTTLIEB, M.D.
Wallman, J., Wildsoet, C., Xu, A., Gottlieb, M.D., Nickla, D.L., Marran, L., Krebs, W. and Christensen, A.M. Moving the retina: choroidal modulation of refractive state 35: 37
GOURAS, P.
Yamamoto, S., Gouras, P. and Lopez, R. The focal cone electroretinogram 35: 1641
GRAHAM, N.
Sutter, A. and Graham, N. Investigating simple and complex mechanisms in texture segregation using the speed-accuracy tradeoff method 35: 2825
von Wiegand, T.E., Hood, D.C. and Graham, N. Testing a computational model of light-adaptation dynamics 35: 3037

GRAHAM, S.L.
Wong, V.A. and Graham, S.L. Effect of repeat use and coating defects of gold foil electrodes on electroretinogram recording 35: 2795
GRANT, M.P.
Seidman, S.H., Leigh, R.J., Tomsak, R.L., Grant, M.P. and Dell'Osso, L.F. Dynamic properties of the human vestibulo-ocular reflex during head rotations in roll 35: 679
GREENE, H.H.
Greene, H.H. and Brown, J.M. The effect of nearby luminance contrast polarity on color boundary localization 35: 2767
GREENSTEIN, V.C.
Seiple, W., Holopigian, K., Szlyk, J.P. and Greenstein, V.C. The effects of random element loss on letter identification: implications for visual acuity loss in patients with retinitis pigmentosa 35: 2057
GRISHOK, A.
Neitz, M., Neitz, J. and Grishok, A. Polymorphism in the number of genes encoding long-wavelength-sensitive cone pigments among males with normal color vision 35: 2395
VON GRÜNAU, M.
Faubert, J. and von Grünau, M. The influence of two spatially distinct primers and attribute priming on motion induction 35: 3119
GRUNFELD, E.D.
Grunfeld, E.D. and Spitzer, H. Spatio-temporal model for subjective colours based on colour coded ganglion cells 35: 275
GRÜSSER, O.-J.
Grüsser, O.-J. Migraine phosphenes and the retino-cortical magnification factor 35: 1125
GRZYWACZ, N.M.
Grzywacz, N.M., Watamaniuk, S.N.J. and McKee, S.P. Temporal coherence theory for the detection and measurement of visual motion 35: 3183
Watamaniuk, S.N.J., McKee, S.P. & Grzywacz, N.M. Detecting a trajectory embedded in random-direction motion noise 35: 65
GUO, K.
Li, C.-Y. and Guo, K. Measurements of geometric illusions, illusory contours and stereo-depth at luminance and colour contrast 35: 1713
GUYTON, D.L.
Lewis, R.F., Zee, D.S., Repka, M.X., Guyton, D.L. and Miller, N.R. Regulation of static and dynamic ocular alignment in patients with trochlear nerve pareses 35: 3255
GWIAZDA, J.
Gwiazda, J., Bauer, J., Thorn, F. and Held, R. A dynamic relationship between myopia and blur-driven accommodation in school-aged children 35: 1299

DE HAAN, E.
de Haan, E., Erens, R.G.F. and Noest, A.J. Shape from shaded random surfaces 35: 2985
HAGEL, G.
Schaeffel, F., Bartmann, M., Hagel, G. and Zrenner, E. Studies on the role of the retinal dopamine/melatonin system in experimental refractive errors in chickens 35: 1247
HAHN, L.W.
Hahn, L.W. and Geisler, W.S. Adaptation mechanisms in spatial vision--I. Bleaches and backgrounds 35: 1585
HAINLINE, L.
Hainline, L. and Riddell, P.M. Binocular alignment and vergence in early infancy 35: 3229
HALLETT, P.E.
Perron, C. and Hallett, P.E. Saccades to large coloured targets stepping in open fields 35: 263

HAMER, R.D.
Norcia, A.M., Hamer, R.D., Jampolsky, A. and Orel-Bixler, D. Plasticity of human motion processing mechanisms following surgery for infantile esotropia 35: 3279
HAMMETT, S.T.
Hammett, S.T. and Snowden, R.J. The effect of contrast adaptation on briefly presented stimuli 35: 1721
HAMSTRA, S.J.
Hamstra, S.J. and Regan, D. Orientation discrimination in cyclopean vision 35: 365
HANSEN, R.M.
Lue, C.-L., Hansen, R.M., Reisner, D.S., Findl, O., Petersen, R.A. and Fulton, A.B. The course of myopia in children with mild retinopathy of prematurity 35: 1329
HARDAGE, L.
Hardage, L. and Tyler, C.W. Induced twinkle aftereffect as a probe of dynamic visual processing mechanisms 35: 757
HARRAD, R.
Sengpiel, F., Blakemore, C. and Harrad, R. Interocular suppression in the primary visual cortex: a possible neural basis of binocular rivalry 35: 179
HARRIS, C.M.
Harris, C.M. Does saccadic undershoot minimize saccadic flight-time? A Monte-Carlo study 35: 691
HARRIS, J.M.
Harris, J.M. and Watamaniuk, S.N.J. Speed discrimination of motion-in-depth using binocular cues 35: 885
HARRIS, J.P.
Harris, J.P. and Fahle, M. The detection and discrimination of spatial offsets 35: 51
HARRIS, M.G.
Meese, T.S., Harris, M.G. and Freeman, T.C.A. Speed gradients and the perception of surface slant: analysis is two-dimensional not one-dimensional 35: 2879
Meese, T.S., Smith, V. and Harris, M.G. Induced motion may account for the illusory transformation of optic flow fields found by Duffy and Wurtz 35: 981
HARWERTH, R.S.
Harwerth, R.S., Smith, E.L. III and Siderov, J. Behavioral studies of local stereopsis and disparity vergence in monkeys 35: 1755
Siderov, J. and Harwerth, R.S. Stereopsis, spatial frequency and retinal eccentricity 35: 2329
HASLWANTER, T.
Haslwanter, T. Mathematics of three-dimensional eye rotations 35: 1727
HAWKEN, M.J.
Gegenfurtner, K.R. and Hawken, M.J. Temporal and chromatic properties of motion mechanisms 35: 1547
HAYHOE, M.M.
Pelz, J.B. and Hayhoe, M.M. The role of exocentric reference frames in the perception of visual direction 35: 2267
HE, J.C.
He, J.C. and Shevell, S.K. Variation in color matching and discrimination among deuteranomalous trichromats: theoretical implications of small differences in photopigments 35: 2579
HEINEMANN, E.G.
Heinemann, E.G. and Chase, S. A quantitative model for simultaneous brightness induction 35: 2007
HELD, R.
Gwiazda, J., Bauer, J., Thorn, F. and Held, R. A dynamic relationship between myopia and blur-driven accommodation in school-aged children 35: 1299

HEMILÄ, S.
Donner, K., Koskelainen, A., Djupsund, K. and Hemilä, S. Changes in retinal time scale under background light: observations on rods and ganglion cells in the frog retina 35: 2255
HEPP, K.
Hepp, K. Theoretical explanations of Listing's law and their implication for binocular vision 35: 3237
HESS, R.F.
Hess, R.F. and Field, D.J. Contour integration across depth 35: 1699
Snowden, R.J., Hess, R.F. and Waugh, S.J. The processing of temporal modulation at different levels of retinal illuminance 35: 775
Wilcox, L.M. and Hess, R.F. D_{max} for stereopsis depends on size, not spatial frequency content 35: 1061
HILDRETH, E.C.
Hildreth, E.C., Ando, H., Andersen, R.A. and Treue, S. Recovering three-dimensional structure from motion with surface reconstruction 35: 117
Treue, S., Andersen, R.A., Ando, H. and Hildreth, E.C. Structure-from-motion: perceptual evidence for surface interpolation 35: 139
HINE, T.J.
Hine, T.J., Cook, M. and Rogers, G.T. An illusion of relative motion dependent upon spatial frequency and orientation 35: 3093
HOCHSTEIN, S.
Rubin, N., Hochstein, S. and Solomon, S. Restricted ability to recover three-dimensional global motion from one-dimensional motion signals: psychophysical observations 35: 463
Rubin, N., Solomon, S. and Hochstein, S. Restricted ability to recover three-dimensional global motion from one-dimensional local signals: theoretical observations 35: 569
HOCK, H.S.
Hock, H.S. and Eastman, K.E. Context effects on perceived position: sustained and transient temporal influences on spatial interactions 35: 635
HOGBEN, J.H.
Hogben, J.H., Rodino, I.S., Clark, C.D. and Pratt, C. A comparison of temporal integration in children with a specific reading disability and normal readers 35: 2067
HOHNSBEIN, J.
Mateeff, S., Dimitrov, G. and Hohnsbein, J. Temporal thresholds and reaction time to changes in velocity of visual motion 35: 355
HOLOPIGIAN, K.
Seiple, W., Holopigian, K., Szlyk, J.P. and Greenstein, V.C. The effects of random element loss on letter identification: implications for visual acuity loss in patients with retinitis pigmentosa 35: 2057
HONDA, H.
Honda, H. Visual mislocalization produced by a rapid image displacement on the retina: examination by means of dichoptic presentation of a target and its background scene 35: 3021
HOOD, D.C.
Hood, D.C. and Birch, D.G. Phototransduction in human cones measured using the *a*-wave of the ERG 35: 2801
Hood, D.C., Cideciyan, A.V., Román, A.J. and Jacobson, S.G. Enhanced S cone syndrome: evidence for an abnormally large number of S cones 35: 1473
von Wiegand, T.E., Hood, D.C. and Graham, N. Testing a computational model of light-adaptation dynamics 35: 3037

HORVÁTH, G.
Horváth, G. and Varjú, D. Underwater refraction-polarization patterns of skylight perceived by aquatic animals through Snell's window of the flat water surface 35: 1651
HOWLAND, H.C.
Glasser, A. and Howland, H.C. *In vitro* changes in back vertex distance of chick and pigeon lenses: species differences and the effects of aging 35: 1813
Glasser, A., Murphy, C.J., Troilo, D. and Howland, H.C. The mechanism of lenticular accommodation in chicks 35: 1525
Hui, J., Peck, L. and Howland, H.C. Correlations between familial refractive error and children's non-cycloplegic refractions 35: 1353
Li, T., Troilo, D., Glasser, A. and Howland, H.C. Constant light produces severe corneal flattening and hyperopia in chickens 35: 1203
Murphy, C.J., Howland, M. and Howland, H.C. Raptors lack lower-field myopia 35: 1153
Schaeffel, F. and Howland, H.C. Guest Editorial 35: 1135
Troilo, D., Li, T., Glasser, A. and Howland, H.C. Differences in eye growth and the response to visual deprivation in different strains of chicken 35: 1211
HOWLAND, M.
Murphy, C.J., Howland, M. and Howland, H.C. Raptors lack lower-field myopia 35: 1153
HU, L.-T.
Mayer, M.J., Dougherty, R.F. and Hu, L.-t. A covariance structure analysis of flicker sensitivity 35: 1575
HUBEL, D.H.
Livingstone, M.S., Nori, S., Freeman, D.C. and Hubel, D.H. Stereopsis and binocularity in the squirrel monkey 35: 345
HUI, J.
Hui, J., Peck, L. and Howland, H.C. Correlations between familial refractive error and children's non-cycloplegic refractions 35: 1353

IDO, K.
Ohtani, Y., Ido, K. and Ejima, Y. Effects of luminance contrast and phase difference on motion assimilation for sinusoidal gratings 35: 2277
IIVANAINEN, A.
Iivanainen, A. and Rovamo, J. Detection of blue under chromatic adaptation: the effects of stimulus size and eccentricity 35: 589
IJSPEERT, J.K.
van den Berg, T.J.T.P. and Ijspeert, J.K. Light scattering in donor lenses 35: 169
ILLUECA, C.
Illueca, C., Capilla, P., Pons, A.M., Seguí, M.M. and Artigas, J.M. Influence of contrast on the recognition of defocused letters: a geometrical model 35: 2127
INCHINGOLO, P.
Bruno, P., Inchingolo, P. and van der Steen, J. Unequal saccades produced by aniseikonic patterns: a model approach 35: 3473
Fioravanti, F., Inchingolo, P., Pensiero, S. and Spanio, M. Saccadic eye movement conjugation in children 35: 3217
IRVING, E.L.
Irving, E.L., Callender, M.G. and Sivak, J.G. Inducing ametropias in hatchling chicks by defocus--aperture effects and cylindrical lenses 35: 1165

JACOBS, G.H.
Neitz, M., Neitz, J. and Jacobs, G.H. Genetic basis of photopigment variations in human dichromats 35: 2095

JACOBSON, S.G.
Hood, D.C., Cideciyan, A.V., Román, A.J. and Jacobson, S.G. Enhanced S cone syndrome: evidence for an abnormally large number of S cones 35: 1473
JAMPOLSKY, A.
Norcia, A.M., Hamer, R.D., Jampolsky, A. and Orel-Bixler, D. Plasticity of human motion processing mechanisms following surgery for infantile esotropia 35: 3279
JARDON, B.
Jardon, B. and Bonaventure, N. Are retinal or mesencephalic dopaminergic systems involved in monocular optokinetic nystagmus asymmetry in frog? 35: 381
Jardon, B. and Bonaventure, N. Different effects of dopamine and Piribedil (a dopamine D_2 agonist) on frog monocular optokinetic nystagmus asymmetry 35: 2665
JENNESS, J.W.
Jenness, J.W. and Shevell, S.K. Color appearance with sparse chromatic context 35: 797
JOHNSON, C.A.
Bedell, H.E. and Johnson, C.A. The effect of flicker on foveal and peripheral thresholds for oscillatory motion 35: 2179
JOHNSTON, A.
Johnston, A. and Clifford, C.W.G. A unified account of three apparent motion illusions 35: 1109
Johnston, A. and Clifford, C.W.G. Perceived motion of contrast-modulated gratings: predictions of the Multi-channel Gradient Model and the role of full-wave rectification 35: 1771
JOHNSTON, E.B.
Landy, M.S., Maloney, L.T., Johnston, E.B. and Young, M. Measurement and modeling of depth cue combination: in defense of weak fusion 35: 389
JORDAN, G.
Jordan, G. and Mollon, J.D. Rayleigh matches and unique green 35: 613

KAMERMANS, M.
Wietsma, J.J., Kamermans, M. and Spekreijse, H. Horizontal cells function normally in ethambutol-treated goldfish 35: 1667
KAMHOLZ, D.W.
Nagy, A.L. and Kamholz, D.W. Luminance discrimination, color contrast, and multiple mechanisms 35: 2147
KAPLAN, E.
Croner, L.J. and Kaplan, E. Receptive fields of P and M ganglion cells across the primate retina 35: 7
Edwards, D.P., Purpura, K.P. and Kaplan, E. Contrast sensitivity and spatial frequency response of primate cortical neurons in and around the cytochrome oxidase blobs 35: 1501
KAPLAN, P.S.
Peterzell, D.H., Werner, J.S. and Kaplan, P.S. Individual differences in contrast sensitivity functions: longitudinal study of 4-, 6-, and 8-month-old human infants 35: 961
KAPOULA, Z.
Eggert, T. and Kapoula, Z. Position dependency of rapidly induced saccade disconjugacy 35: 3493
Kapoula, Z., Eggert, T. and Bucci, M.P. Immediate saccade amplitude disconjugacy induced by unequal images 35: 3505
KEEBLE, D.R.T.
Keeble, D.R.T., Kingdom, F.A.A., Moulden, B. and Morgan, M.J. Detection of orientationally multimodal textures 35: 1991
Keeble, D.R.T., Moulden, B. and Kingdom, F.A.A. The perceived orientation of aliased lines 35: 2759

Kingdom, F.A.A., Keeble, D. and Moulden, B. Sensitivity to orientation modulation in micropattern-based textures 35: 79
KEETON, D.M.
Owsley, C., Ball, K. and Keeton, D.M. Relationship between visual sensitivity and target localization in older adults 35: 579
KELLER, I.
Westbrook, A.M., Crewther, S.G., Liang, H., Beresford, J.A., Allen, M., Keller, I. and Crewther, D.P. Formoguanamine-induced inhibition of deprivation myopia in chick is accompanied by choroidal thinning while retinal function is retained 35: 2075
KERSTEN, D.
Liu, Z., Knill, D.C. and Kersten, D. Object classification for human and ideal observers 35: 549
Tjan, B.S., Braje, W.L., Legge, G.E. and Kersten, D. Human efficiency for recognizing 3-D objects in luminance noise 35: 3053
KIMURA, E.
Kimura, E. and Young, R.S.L. Nature of the pupillary responses evoked by chromatic flashes on a white background 35: 897
Young, R.S.L., Kimura, E. and DeLucia, P.R. A pupillometric correlate of scotopic visual acuity 35: 2235
KING, R.A.
Davis, E.T., Yager, D., King, R.A. and Kirkland, B.A. A labeled lines explanation of the perceived spatial frequency of moderate-, near-threshold- and zero-contrast spatial patterns 35: 1025
KING, W.M.
King, W.M. and Zhou, W. Initiation of disjunctive smsooth pursuit in monkeys: evidence that Hering's law of equal innervation is not obeyed by the smooth pursuit system 35: 3389
KINGDOM, F.A.A.
Keeble, D.R.T., Kingdom, F.A.A., Moulden, B. and Morgan, M.J. Detection of orientationally multimodal textures 35: 1991
Keeble, D.R.T., Moulden, B. and Kingdom, F.A.A. The perceived orientation of aliased lines 35: 2759
Kingdom, F.A.A., Keeble, D. and Moulden, B. Sensitivity to orientation modulation in micropattern-based textures 35: 79
KINSLER, V.
Kinsler, V. and Carpenter, R.H.S. Saccadic eye movements while reading music 35: 1447
KIORPES, L.
Kiorpes, L. and Wallman, J. Does experimentally-induced amblyopia cause hyperopia in monkeys? 35: 1289
Kiper, D.C., Gegenfurtner, K.R. and Kiorpes, L. Spatial frequency channels in experimentally strabismic monkeys revealed by oblique masking 35: 2737
KIPER, D.C.
Kiper, D.C., Gegenfurtner, K.R. and Kiorpes, L. Spatial frequency channels in experimentally strabismic monkeys revealed by oblique masking 35: 2737
KIRKLAND, B.A.
Davis, E.T., Yager, D., King, R.A. and Kirkland, B.A. A labeled lines explanation of the perceived spatial frequency of moderate-, near-threshold- and zero-contrast spatial patterns 35: 1025
KITO, Y.
Suzuki, T., Narita, K., Yoshihara, K., Nagai, K. and Kito, Y. Phosphatidyl inositol-phospholipase C in squid photoreceptor membrane is activated by stable metarhodopsin via GTP-binding protein, Gq 35: 1011

KLEIN, S.A.
Carney, T., Silverstein, D.A. and Klein, S.A. Vernier acuity during image rotation and translation: visual performance limits 35: 1951
KNILL, D.C.
Liu, Z., Knill, D.C. and Kersten, D. Object classification for human and ideal observers 35: 549
KOCH, C.
Fahle, M. and Koch, C. Spatial displacement, but not temporal asynchrony, destroys figural binding 35: 491
KOJIMA, H.
Kojima, H. and Aiba, T.S. The spatiotemporal range of inhibitory interaction in flicker detection 35: 3015
KONTSEVICH, L.L.
Kontsevich, L.L. The nature of the inputs to cortical motion detectors 35: 2785
KOOIJMAN, A.C.
Cornelissen, F.W., Bootsma, A. and Kooijman, A.C. Object perception by visually impaired people at different light levels 35: 161
KOPECZ, K.
Kopecz, K. Saccadic reaction times in gap/overlap paradigms: a model based on integration of intentional and visual information on neural, dynamic fields 35: 2911
KORTUM, P.T.
Kortum, P.T. and Geisler, W.S. Adaptation mechanisms in spatial vision--II. Flash thresholds and background adaptation 35: 1595
KOSKELAINEN, A.
Donner, K., Koskelainen, A., Djupsund, K. and Hemilä, S. Changes in retinal time scale under background light: observations on rods and ganglion cells in the frog retina 35: 2255
KOTULAK, J.C.
Kotulak, J.C. and Morse, S.E. The effect of perceived distance on accommodation under binocular steady-state conditions 35: 791
KOWLER, E.
Epelboim, J., Steinman, R.M., Kowler, E., Edwards, M., Pizlo, Z., Erkelens, C.J. and Collewijn, H. The function of visual search and memory in sequential looking tasks 35: 3401
Kowler, E. and Blaser, E. The accuracy and precision of saccades to small and large targets 35: 1741
Kowler, E., Anderson, E., Dosher, B. and Blaser, E. The role of attention in the programming of saccades 35: 1897
KRAFT, S.
Reed, M.J., Steinbach, M.J., Ono, H., Kraft, S. and Gallie, B. Alignment ability of strabismic and eye enucleated subjects on the horizontal and oblique meridians 35: 2523
KRAUSKOPF, J.
Wuerger, S.M., Maloney, L.T. and Krauskopf, J. Proximity judgments in color space: tests of a Euclidean color geometry 35: 827
KREBS, W.
Wallman, J., Wildsoet, C., Xu, A., Gottlieb, M.D., Nickla, D.L., Marran, L., Krebs, W. and Christensen, A.M. Moving the retina: choroidal modulation of refractive state 35: 37
KREMERS, J.
Lee, B.B., Wehrhahn, C., Westheimer, G. and Kremers, J. The spatial precision of macaque ganglion cell responses in relation to vernier acuity of human observers 35: 2743

KRONAUER, R.E.
Chaparro, A., Stromeyer, C.F. III, Chen, G. and Kronauer, R.E. Human cones appear to adapt at low light levels: measurements on the red-green detection mechanism 35: 3103
KRUGER, E.S.
Kruger, P.B., Mathews, S., Aggarwala, K.R., Yager, D. and Kruger, E.S. Accommodation responds to changing contrast of long, middle and short spectral-waveband components of the retinal image 35: 2415
KRUGER, P.B.
Kruger, P.B., Mathews, S., Aggarwala, K.R., Yager, D. and Kruger, E.S. Accommodation responds to changing contrast of long, middle and short spectral-waveband components of the retinal image 35: 2415
KUBA, M.
Kubová, Z., Kuba, M., Spekreijse, H. and Blakemore, C. Contrast dependence of motion-onset and pattern-reversal evoked potentials 35: 197
KUBOVÁ, Z.
Kubová, Z., Kuba, M., Spekreijse, H. and Blakemore, C. Contrast dependence of motion-onset and pattern-reversal evoked potentials 35: 197
KULP, T.D.
Kulp, T.D. and Fuld, K. The prediction of hue and saturation for non-spectral lights 35: 2967
KUMAR, T.
Kumar, T. and Glaser, D.A. Depth discrimination of a crowded line is better when it is more luminant than the lines crowding it 35: 657
Kumar, T. Stereopsis due to luminance differences in the two eyes 35: 255
KUPENOVA, P.
Popova, E., Kupenova, P., Vitanova, L. and Mitova, L. Effect of 2-amino-4-phosphonobutyrate on ERG OFF-response after glycinergic and GABAergic blockade 35: 1945

LAMB, T.D.
Lamb, T.D. Photoreceptor spectral sensitivities: common shape in the long-wavelength region 35: 3083
LANDY, M.S.
Landy, M.S., Maloney, L.T., Johnston, E.B. and Young, M. Measurement and modeling of depth cue combination: in defense of weak fusion 35: 389
Wolfson, S.S. and Landy, M.S. Discrimination of orientation-defined texture edges 35: 2863
LANKHEET, M.J.M.
Lankheet, M.J.M. and Verstraten, F.A.J. Attentional modulation of adaptation to two-component transparent motion 35: 1401
LAPPE, M.
Lappe, M. and Rauschecker, J.P. An illusory transformation in a model of optic flow processing 35: 1619
LAPUERTA, P.
Lapuerta, P. and Schein, S.J. A four-surface schematic eye of macaque monkey obtained by an optical method 35: 2245
LAROCHE, R.G.
Tremblay, F., Laroche, R.G. and De Becker, I. The electroretinographic diagnosis of the incomplete form of congenital stationary night blindness 35: 2383
LASKER, A.G.
Straumann, D., Zee, D.S., Solomon, D., Lasker, A.G. and Roberts, D.C. Transient torsion during and after saccades 35: 3321

LEBEDEV, S.
Van Gelder, P., Lebedev, S., Liu, P.M. and Tsui, W.H. Anticipatory saccades in smooth pursuit: task effects and pursuit vector after saccades 35: 667
LEDGEWAY, T.
Ledgeway, T. and Smith, A.T. The perceived speed of second-order motion and its dependence on stimulus contrast 35: 1421
LEE, B.B.
Lee, B.B., Wehrhahn, C., Westheimer, G. and Kremers, J. The spatial precision of macaque ganglion cell responses in relation to vernier acuity of human observers 35: 2743
LEE, T.S.
Lee, T.S. A Bayesian framework for understanding texture segmentation in the primary visual cortex 35: 2643
LEECH, E.M.
McBrien, N.A., Moghaddam, H.O., Cottriall, C.L., Leech, E.M. and Cornell, L.M. The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks 35: 1141
LEGGE, G.E.
Ahn, S.J. and Legge, G.E. Psychophysics of reading--XIII. Predictors of magnifier-aided reading speed in low vision 35: 1931
Ahn, S.J., Legge, G.E. and Luebker, A. Printed cards for measuring low-vision reading speed 35: 1939
Akutsu, H. and Legge, G.E. Discrimination of compound gratings: spatial-frequency channels or local features? 35: 2685
Braje, W.L., Tjan, B.S. and Legge, G.E. Human efficiency for recognizing and detecting low-pass filtered objects 35: 2955
Tjan, B.S., Braje, W.L., Legge, G.E. and Kersten, D. Human efficiency for recognizing 3-D objects in luminance noise 35: 3053
LEHMKUHLE, S.
Steinman, B.A., Steinman, S.B. and Lehmkuhle, S. Visual attention mechanisms show a center-surround organization 35: 1859
LEIGH, R.J.
Seidman, S.H., Leigh, R.J., Tomsak, R.L., Grant, M.P. and Dell'Osso, L.F. Dynamic properties of the human vestibulo-ocular reflex during head rotations in roll 35: 679
Sheth, N.V., Dell'Osso, L.F., Leigh, R.J., Van Doren, C.L. and Peckham, H.P. The effects of afferent stimulation on congenital nystagmus foveation periods 35: 2371
Zivotofsky, A.Z., Averbuch-Heller, L., Thomas, C.W., Das, V.E., Discenna, A.O. and Leigh, R.J. Tracking of illusory target motion: differences between gaze and head responses 35: 3029
LESSARD, J.
Wilkinson, F. and Lessard, J. Orientation, density and size as cues to texture segmentation in kittens 35: 2463
LEVI, D.M.
Beard, B.L., Levi, D.M. and Reich, L.N. Perceptual learning in parafoveal vision 35: 1679
Saarinen, J. and Levi, D.M. Perceptual learning in vernier acuity: what is learned? 35: 519
Sarrinen, J. and Levi, D.M. Orientation anisotropy in vernier acuity 35: 2449
LEWIS, R.F.
Lewis, R.F., Zee, D.S., Repka, M.X., Guyton, D.L. and Miller, N.R. Regulation of static and dynamic ocular alignment in patients with trochlear nerve pareses 35: 3255
LI, C.-Y.
Li, C.-Y. and Guo, K. Measurements of geometric illusions, illusory contours and stereo-depth at luminance and colour contrast 35: 1713

LI, T.
Li, T., Troilo, D., Glasser, A. and Howland, H.C. Constant light produces severe corneal flattening and hyperopia in chickens 35: 1203
Troilo, D., Li, T., Glasser, A. and Howland, H.C. Differences in eye growth and the response to visual deprivation in different strains of chicken 35: 1211
LI, X.
Shiffrar, M., Li, X. and Lorenceau, J. Motion integration across differing image features 35: 2137
LIANG, H.
Liang, H., Crewther, D.P., Crewther, S.G. and Barila, A.M. A role for photoreceptor outer segments in the induction of deprivation myopia 35: 1217
Westbrook, A.M., Crewther, S.G., Liang, H., Beresford, J.A., Allen, M., Keller, I. and Crewther, D.P. Formoguanamine-induced inhibition of deprivation myopia in chick is accompanied by choroidal thinning while retinal function is retained 35: 2075
LIN, T.
Stone, R.A., Lin, T., Desai, D. and Capehart, C. Photoperiod, early post-natal eye growth, and visual deprivation 35: 1195
LIN, Z.-S.
Yazulla, S. and Lin, Z.-S. Differential effects of dopamine depletion on the distribution of [^{3}H]SCH 23390 and [^{3}H]spiperone binding sites in the goldfish retina 35: 2409
LINDSEY, D.T.
Brown, A.M., Lindsey, D.T., McSweeney, E.M. and Walters, M.M. Infant luminance and chromatic contrast sensitivity: optokinetic nystagmus data on 3-month-olds 35: 3145
LIU, L.
Liu, L. and Schor, C.M. Binocular combination of contrast signals from orthogonal orientation channels 35: 2559
LIU, P.M.
Van Gelder, P., Lebedev, S., Liu, P.M. and Tsui, W.H. Anticipatory saccades in smooth pursuit: task effects and pursuit vector after saccades 35: 667
LIU, Z.
Liu, Z., Knill, D.C. and Kersten, D. Object classification for human and ideal observers 35: 549
LIVINGSTONE, M.S.
Livingstone, M.S., Nori, S., Freeman, D.C. and Hubel, D.H. Stereopsis and binocularity in the squirrel monkey 35: 345
LOPEZ, R.
Yamamoto, S., Gouras, P. and Lopez, R. The focal cone electroretinogram 35: 1641
LORENCEAU, J.
Lorenceau, J. and Boucart, M. Effects of a static textured background on motion integration 35: 2303
Shiffrar, M., Li, X. and Lorenceau, J. Motion integration across differing image features 35: 2137
LU, Z.-L.
Lu, Z.-L. and Sperling, G. The functional architecture of human visual motion perception 35: 2697
LUE, C.-L.
Lue, C.-L., Hansen, R.M., Reisner, D.S., Findl, O., Petersen, R.A. and Fulton, A.B. The course of myopia in children with mild retinopathy of prematurity 35: 1329
LUEBKER, A.
Ahn, S.J., Legge, G.E. and Luebker, A. Printed cards for measuring low-vision reading speed 35: 1939

LUER, C.A.
Pardue, M.T., Luer, C.A., Callender, M.G., Chou, B.R. and Sivak, J.G. The absence of a photopic influence on the refractive development of the embryonic eye of the clearnose skate *(Raja eglanteria)* 35: 1675
LUNTINEN, O.
Luntinen, O., Rovamo, J. and Näsänen, R. Modelling the increase of contrast sensitivity with grating area and exposure time 35: 2339
LUSTGARTEN, M.
Pola, J., Wyatt, H.J. and Lustgarten, M. Visual fixation of a target and suppression of optokinetic nystagmus: effects of varying target feedback 35: 1079
Wyatt, H.J., Pola, J., Lustgarten, M. and Aksionoff, E. Optokinetic nystagmus (OKN) suppression by fixation of a stabilized target: the effect of OKN-stimulus predictability 35: 2903
LYON, D.R.
Geri, G.A., Lyon, D.R. and Zeevi, Y.Y. Preattentive equivalence of multicomponent Gabor textures in the central and peripheral visual field 35: 495

MAKOUS, W.
Yang, J. and Makous, W. Modeling pedestal experiments with amplitude instead of contrast 35: 1979
Yang, J., Qi, X. and Makous, W. Zero frequency masking and a model of contrast sensitivity 35: 1965
MALONEY, L.T.
Landy, M.S., Maloney, L.T., Johnston, E.B. and Young, M. Measurement and modeling of depth cue combination: in defense of weak fusion 35: 389
Wuerger, S.M., Maloney, L.T. and Krauskopf, J. Proximity judgments in color space: tests of a Euclidean color geometry 35: 827
MANAHILOV, V.
Manahilov, V. Spatiotemporal visual response to suprathreshold stimuli 35: 227
MARRAN, L.
Wallman, J., Wildsoet, C., Xu, A., Gottlieb, M.D., Nickla, D.L., Marran, L., Krebs, W. and Christensen, A.M. Moving the retina: choroidal modulation of refractive state 35: 37
MARRERO, J.A.
Albano, J.E. and Marrero, J.A. Binocular interactions in rapid saccadic adaptation 35: 3439
MASH, C.
Mash, C., Dobson, V. and Carpenter, N. Interobserver agreement for measurement of grating acuity and interocular acuity differences with the Teller acuity card procedure 35: 303
MASON, A.
Cornelissen, P., Richardson, A., Mason, A., Fowler, S. and Stein, J. Contrast sensitivity and coherent motion detection measured at photopic luminance levels in dyslexics and controls 35: 1483
MASSON, G.
Masson, G., Proteau, L. and Mestre, D.R. Effects of stationary and moving textured backgrounds on the visuo-oculo-manual tracking in humans 35: 837
MATEEFF, S.
Mateeff, S., Dimitrov, G. and Hohnsbein, J. Temporal thresholds and reaction time to changes in velocity of visual motion 35: 355
MATHER, G.
Mather, G. and Tunley, H. Motion detection in interleaved random dot patterns: evidence for a rectifying nonlinearity preceding motion analysis 35: 2117
Mather, G. and Tunley, H. Temporal filtering enhances direction discrimination in random-dot patterns 35: 2105

MATHEWS, S.
Kruger, P.B., Mathews, S., Aggarwala, K.R., Yager, D. and Kruger, E.S. Accommodation responds to changing contrast of long, middle and short spectral-waveband components of the retinal image 35: 2415
MAY, J.G.
Williams, M.C., May, J.G., Solman, R. and Zhou, H. The effects of spatial filtering and contrast reduction on visual search times in good and poor readers 35: 285
MAYER, M.J.
Mayer, M.J., Dougherty, R.F. and Hu, L.-t. A covariance structure analysis of flicker sensitivity 35: 1575
MAYHEW, J.E.W.
Frisby, J.P., Buckley, D., Wishart, K.A., Porrill, J., Gårding, J. and Mayhew, J.E.W. Interaction of stereo and texture cues in the perception of three-dimensional steps 35: 1463
Gårding, J., Porrill, J., Mayhew, J.E.W. and Frisby, J.P. Stereopsis, vertical disparity and relief transformations 35: 703
MCBRIEN, N.A.
McBrien, N.A., Moghaddam, H.O., Cottriall, C.L., Leech, E.M. and Cornell, L.M. The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks 35: 1141
MCCANDLESS, J.W.
Schor, C.M. and McCandless, J.W. An adaptable association between vertical and horizontal vergence 35: 3519
MCGRAW, P.V.
Winn, B., Bradley, A., Strang, N.C., McGraw, P.V. and Thibos, L.N. Reversals of the colour-depth illusion explained by ocular chromatic aberration 35: 2675
MCKEE, S.P.
Grzywacz, N.M., Watamaniuk, S.N.J. and McKee, S.P. Temporal coherence theory for the detection and measurement of visual motion 35: 3183
Watamaniuk, S.N.J., McKee, S.P. & Grzywacz, N.M. Detecting a trajectory embedded in random-direction motion noise 35: 65
MCSWEENEY, E.M.
Brown, A.M., Lindsey, D.T., McSweeney, E.M. and Walters, M.M. Infant luminance and chromatic contrast sensitivity: optokinetic nystagmus data on 3-month-olds 35: 3145
MEESE, T.S.
Meese, T.S., Harris, M.G. and Freeman, T.C.A. Speed gradients and the perception of surface slant: analysis is two-dimensional not one-dimensional 35: 2879
Meese, T.S. Phase-reversal discrimination in one and two dimensions: performance is limited by spatial repetition, not spatial frequency content 35: 2157
Meese, T.S., Smith, V. and Harris, M.G. Induced motion may account for the illusory transformation of optic flow fields found by Duffy and Wurtz 35: 981
MELIS, B.J.M.
Melis, B.J.M. and Van Gisbergen, J.A.M. Analysis of saccadic short-term plasticity in three dimensions 35: 3423
MERRISON, A.F.A.
Merrison, A.F.A. and Carpenter, R.H.S. "Express" smooth pursuit 35: 1459
MESTRE, D.R.
Masson, G., Proteau, L. and Mestre, D.R. Effects of stationary and moving textured backgrounds on the visuo-oculo-manual tracking in humans 35: 837
MIKHAEL, S.
Mikhael, S., Nicolle, D. and Vilis, T. Rotation of Listing's plane by horizontal, vertical and oblique prism-induced vergence 35: 3243

MILLER, N.R.
Lewis, R.F., Zee, D.S., Repka, M.X., Guyton, D.L. and Miller, N.R. Regulation of static and dynamic ocular alignment in patients with trochlear nerve pareses 35: 3255
MINGOLLA, E.
Pessoa, L., Mingolla, E. and Neumann, H. A contrast- and luminance-driven multiscale network model of brightness perception 35: 2201
MINKEN, A.W.H.
Minken, A.W.H., Gielen, C.C.A.M. and Van Gisbergen, J.A.M. An alternative three-dimensional interpretation of Hering's equal-innervation law for version and vergence eye movements 35: 93
MITOVA, L.
Popova, E., Kupenova, P., Vitanova, L. and Mitova, L. Effect of 2-amino-4-phosphonobutyrate on ERG OFF-response after glycinergic and GABAergic blockade 35: 1945
MIZUNAMI, M.
Mizunami, M. Functional diversity of neural organization in insect ocellar systems 35: 443
MOGHADDAM, H.O.
McBrien, N.A., Moghaddam, H.O., Cottriall, C.L., Leech, E.M. and Cornell, L.M. The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks 35: 1141
MOLLON, J.D.
Jordan, G. and Mollon, J.D. Rayleigh matches and unique green 35: 613
MON-WILLIAMS, M.
Wann, J.P., Rushton, S. and Mon-Williams, M. Natural problems for stereoscopic depth perception in virtual environments 35: 2731
MOORE, S.T.
Smith, S.T., Curthoys, I.S. and Moore, S.T. The human ocular torsion position response during yaw angular acceleration 35: 2045
MORENO, M.A.
Watanabe, T., Nanez, J.E. Sr. and Moreno, M.A. Depth release of illusory contour shape in the Ehrenstein grid 35: 2845
MORGAN, M.J.
Keeble, D.R.T., Kingdom, F.A.A., Moulden, B. and Morgan, M.J. Detection of orientationally multimodal textures 35: 1991
Morgan, M.J. and Dresp, B. Contrast detection facilitation by spatially separated targets and inducers 35: 1019
MORSE, S.E.
Kotulak, J.C. and Morse, S.E. The effect of perceived distance on accommodation under binocular steady-state conditions 35: 791
MOSCHOVAKIS, A.K.
Moschovakis, A.K. Are laws that govern behavior embedded in the structure of the CNS? The case of Hering's law 35: 3207
MOULDEN, B.
Keeble, D.R.T., Kingdom, F.A.A., Moulden, B. and Morgan, M.J. Detection of orientationally multimodal textures 35: 1991
Keeble, D.R.T., Moulden, B. and Kingdom, F.A.A. The perceived orientation of aliased lines 35: 2759
Kingdom, F.A.A., Keeble, D. and Moulden, B. Sensitivity to orientation modulation in micropattern-based textures 35: 79
MURAKAMI, I.
Murakami, I. and Shimojo, S. Modulation of motion aftereffect by surround motion and its dependence on stimulus size and eccentricity 35: 1835
Murakami, I. Motion aftereffect after monocular adaptation to filled-in motion at the blind spot 35: 1041

MURAKOSHI, T.
Murakoshi, T. Cholinergic modulation of synaptic transmission in the rat visual cortex *in vitro* 35: 25
MURPHY, C.J.
Glasser, A., Murphy, C.J., Troilo, D. and Howland, H.C. The mechanism of lenticular accommodation in chicks 35: 1525
Murphy, C.J., Howland, M. and Howland, H.C. Raptors lack lower-field myopia 35: 1153
MUSTONEN, J.
Rovamo, J., Mustonen, J. and Näsänen, R. Neural modulation transfer function of the human visual system at various eccentricities 35: 767
MUTTI, D.O.
Mutti, D.O. and Zadnik, K. The utility of three predictors of childhood myopia: a Bayesian analysis 35: 1345
Mutti, D.O., Zadnik, K. and Adams, A.J. The equivalent refractive index of the crystalline lens in childhood 35: 1565
Zadnik, K. and Mutti, D.O. How applicable are animal myopia models to human juvenile onset myopia? 35: 1283

NAGAI, K.
Suzuki, T., Narita, K., Yoshihara, K., Nagai, K. and Kito, Y. Phosphatidyl inositol-phospholipase C in squid photoreceptor membrane is activated by stable metarhodopsin via GTP-binding protein, Gq 35: 1011
NAGY, A.L.
Nagy, A.L. and Kamholz, D.W. Luminance discrimination, color contrast, and multiple mechanisms 35: 2147
NANEZ, J.E. SR.
Watanabe, T., Nanez, J.E. Sr. and Moreno, M.A. Depth release of illusory contour shape in the Ehrenstein grid 35: 2845
NAPPER, G.A.
Napper, G.A., Brennan, N.A., Barrington, M., Squires, M.A., Vessey, G.A. and Vingrys, A.J. The duration of normal visual exposure necessary to prevent form deprivation myopia in chicks 35: 1337
NARITA, K.
Suzuki, T., Narita, K., Yoshihara, K., Nagai, K. and Kito, Y. Phosphatidyl inositol-phospholipase C in squid photoreceptor membrane is activated by stable metarhodopsin via GTP-binding protein, Gq 35: 1011
NÄSÄNEN, R.
Luntinen, O., Rovamo, J. and Näsänen, R. Modelling the increase of contrast sensitivity with grating area and exposure time 35: 2339
Rovamo, J., Mustonen, J. and Näsänen, R. Neural modulation transfer function of the human visual system at various eccentricities 35: 767
NAWROT, M.
Nawrot, M. and Rizzo, M. Motion perception deficits from midline cerebellar lesions in human 35: 723
NEGISHI, K.
Fröhlich, E., Negishi, K. and Wagner, H.-J. Patterns of rod proliferation in deep-sea fish retinae 35: 1799
NEITZ, J.
Neitz, M., Neitz, J. and Grishok, A. Polymorphism in the number of genes encoding long-wavelength-sensitive cone pigments among males with normal color vision 35: 2395
Neitz, M., Neitz, J. and Jacobs, G.H. Genetic basis of photopigment variations in human dichromats 35: 2095

NEITZ, M.
Neitz, M., Neitz, J. and Grishok, A. Polymorphism in the number of genes encoding long-wavelength-sensitive cone pigments among males with normal color vision 35: 2395
Neitz, M., Neitz, J. and Jacobs, G.H. Genetic basis of photopigment variations in human dichromats 35: 2095
NEUMANN, H.
Pessoa, L., Mingolla, E. and Neumann, H. A contrast- and luminance-driven multiscale network model of brightness perception 35: 2201
NICKLA, D.L.
Wallman, J., Wildsoet, C., Xu, A., Gottlieb, M.D., Nickla, D.L., Marran, L., Krebs, W. and Christensen, A.M. Moving the retina: choroidal modulation of refractive state 35: 37
NICOLLE, D.
Mikhael, S., Nicolle, D. and Vilis, T. Rotation of Listing's plane by horizontal, vertical and oblique prism-induced vergence 35: 3243
NIEVES, J.L.
Romero, J., Nieves, J.L. and García-Beltrán, A. Human processing of colour information in the chromatic-frequency domain 35: 867
NISHIDA, S.
Nishida, S. and Sato, T. Motion aftereffect with flickering test patterns reveals higher stages of motion processing 35: 477
NOEST, A.J.
de Haan, E., Erens, R.G.F. and Noest, A.J. Shape from shaded random surfaces 35: 2985
NORCIA, A.M.
Norcia, A.M., Hamer, R.D., Jampolsky, A. and Orel-Bixler, D. Plasticity of human motion processing mechanisms following surgery for infantile esotropia 35: 3279
NORI, S.
Livingstone, M.S., Nori, S., Freeman, D.C. and Hubel, D.H. Stereopsis and binocularity in the squirrel monkey 35: 345
NORMAN, J.F.
Todd, J.T. and Norman, J.F. The effects of spatiotemporal integration on maximum displacement thresholds for the detection of coherent motion 35: 2287
NORTON, T.T.
Norton, T.T. and Rada, J.A. Reduced extracellular matrix in mammalian sclera with induced myopia 35: 1271

ÖGMEN, H.
Chen, S., Bedell, H.E. and Ögmen, H. A target in real motion appears blurred in the absence of other proximal moving targets 35: 2315
OHSHIMA, S.
Ohshima, S., Yagi, T. and Funahashi, Y. Computational studies on the interaction between red cone and H1 horizontal cell 35: 149
OHTANI, Y.
Ohtani, Y., Ido, K. and Ejima, Y. Effects of luminance contrast and phase difference on motion assimilation for sinusoidal gratings 35: 2277
ONO, H.
Reed, M.J., Steinbach, M.J., Ono, H., Kraft, S. and Gallie, B. Alignment ability of strabismic and eye enucleated subjects on the horizontal and oblique meridians 35: 2523
OPTICAN, L.M.
Optican, L.M. A field theory of saccade generation: temporal-to-spatial transform in the superior colliculus 35: 3313
OREL-BIXLER, D.
Norcia, A.M., Hamer, R.D., Jampolsky, A. and Orel-Bixler, D. Plasticity of human motion processing mechanisms following surgery for infantile esotropia 35: 3279

OSAKA, N.
Ashida, H. and Osaka, N. Motion aftereffect with flickering test stimuli depends on adapting velocity 35: 1825
O'SHEA, R.P.
Broerse, J. and O'Shea, R.P. Local and global factors in spatially-contingent coloured aftereffects 35: 207
OWSLEY, C.
Owsley, C., Ball, K. and Keeton, D.M. Relationship between visual sensitivity and target localization in older adults 35: 579

PARADISO, M.A.
Rossi, A.F. and Paradiso, M.A. Feature-specific effects of selective visual attention 35: 621
PARDUE, M.T.
Pardue, M.T., Luer, C.A., Callender, M.G., Chou, B.R. and Sivak, J.G. The absence of a photopic influence on the refractive development of the embryonic eye of the clearnose skate *(Raja eglanteria)* 35: 1675
PASCAL, E.
Pascal, E. and Abadi, R.V. Contour interaction in the presence of congenital nystagmus 35: 1785
PASHLER, H.
Shiu, L.-P. and Pashler, H. Spatial attention and vernier acuity 35: 337
PECK, L.
Hui, J., Peck, L. and Howland, H.C. Correlations between familial refractive error and children's non-cycloplegic refractions 35: 1353
PECKHAM, H.P.
Sheth, N.V., Dell'Osso, L.F., Leigh, R.J., Van Doren, C.L. and Peckham, H.P. The effects of afferent stimulation on congenital nystagmus foveation periods 35: 2371
PELZ, J.B.
Pelz, J.B. and Hayhoe, M.M. The role of exocentric reference frames in the perception of visual direction 35: 2267
PENSIERO, S.
Accardo, A.P., Pensiero, S., da Pozzo, S., and Perissutti, P. Characteristics of horizontal smooth pursuit eye movements to sinusoidal stimulation in children of primary school age 35: 539
Fioravanti, F., Inchingolo, P., Pensiero, S. and Spanio, M. Saccadic eye movement conjugation in children 35: 3217
PEPPE, A.
Stanzione, P., Pierantozzi, M., Semprini, R., Tagliati, M., Traversa, R., Peppe, A., Pierelli, F. and Bernardi, G. Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
PERISSUTTI, P.
Accardo, A.P., Pensiero, S., da Pozzo, S., and Perissutti, P. Characteristics of horizontal smooth pursuit eye movements to sinusoidal stimulation in children of primary school age 35: 539
PERRON, C.
Perron, C. and Hallett, P.E. Saccades to large coloured targets stepping in open fields 35: 263
PESSOA, L.
Pessoa, L., Mingolla, E. and Neumann, H. A contrast- and luminance-driven multiscale network model of brightness perception 35: 2201
PETERSEN, R.A.
Lue, C.-L., Hansen, R.M., Reisner, D.S., Findl, O., Petersen, R.A. and Fulton, A.B. The course of myopia in children with mild retinopathy of prematurity 35: 1329

PETERSIK, J.T.
Petersik, J.T. A comparison of varieties of "second-order" motion 35: 507
PETERZELL, D.H.
Peterzell, D.H., Werner, J.S. and Kaplan, P.S. Individual differences in contrast sensitivity functions: longitudinal study of 4-, 6-, and 8-month-old human infants 35: 961
PIERANTOZZI, M.
Stanzione, P., Pierantozzi, M., Semprini, R., Tagliati, M., Traversa, R., Peppe, A., Pierelli, F. and Bernardi, G. Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
PIERELLI, F.
Stanzione, P., Pierantozzi, M., Semprini, R., Tagliati, M., Traversa, R., Peppe, A., Pierelli, F. and Bernardi, G. Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
PIZER, S.M.
Burbeck, C.A. and Pizer, S.M. Object representation by cores: identifying and representing primitive spatial regions 35: 1917
PIZLO, Z.
Epelboim, J., Steinman, R.M., Kowler, E., Edwards, M., Pizlo, Z., Erkelens, C.J. and Collewijn, H. The function of visual search and memory in sequential looking tasks 35: 3401
Pizlo, Z., Rosenfeld, A. and Epelboim, J. An exponential pyramid model of the time-course of size processing 35: 1089
POGGIO, T.
Fahle, M., Edelman, S. and Poggio, T. Fast perceptual learning in hyperacuity 35: 3003
POLA, J.
Pola, J., Wyatt, H.J. and Lustgarten, M. Visual fixation of a target and suppression of optokinetic nystagmus: effects of varying target feedback 35: 1079
Wyatt, H.J., Pola, J., Lustgarten, M. and Aksionoff, E. Optokinetic nystagmus (OKN) suppression by fixation of a stabilized target: the effect of OKN-stimulus predictability 35: 2903
PONS, A.M.
Illueca, C., Capilla, P., Pons, A.M., Seguí, M.M. and Artigas, J.M. Influence of contrast on the recognition of defocused letters: a geometrical model 35: 2127
POPOVA, E.
Popova, E., Kupenova, P., Vitanova, L. and Mitova, L. Effect of 2-amino-4-phosphonobutyrate on ERG OFF-response after glycinergic and GABAergic blockade 35: 1945
PORRILL, J.
Frisby, J.P., Buckley, D., Wishart, K.A., Porrill, J., Gårding, J. and Mayhew, J.E.W. Interaction of stereo and texture cues in the perception of three-dimensional steps 35: 1463
Gårding, J., Porrill, J., Mayhew, J.E.W. and Frisby, J.P. Stereopsis, vertical disparity and relief transformations 35: 703
POWERS, M.K.
Bilotta, J., DeMarco, P.J. Jr. and Powers, M.K. The contributions of ON- and OFF-pathways to contrast sensitivity and spatial resolution in goldfish 35: 103
PRATT, C.
Hogben, J.H., Rodino, I.S., Clark, C.D. and Pratt, C. A comparison of temporal integration in children with a specific reading disability and normal readers 35: 2067

PROTEAU, L.
Masson, G., Proteau, L. and Mestre, D.R. Effects of stationary and moving textured backgrounds on the visuo-oculo-manual tracking in humans 35: 837
PURPURA, K.P.
Edwards, D.P., Purpura, K.P. and Kaplan, E. Contrast sensitivity and spatial frequency response of primate cortical neurons in and around the cytochrome oxidase blobs 35: 1501

QI, X.
Yang, J., Qi, X. and Makous, W. Zero frequency masking and a model of contrast sensitivity 35: 1965

RADA, J.A.
Norton, T.T. and Rada, J.A. Reduced extracellular matrix in mammalian sclera with induced myopia 35: 1271
RAUSCHECKER, J.P.
Lappe, M. and Rauschecker, J.P. An illusory transformation in a model of optic flow processing 35: 1619
REED, M.J.
Reed, M.J., Steinbach, M.J., Ono, H., Kraft, S. and Gallie, B. Alignment ability of strabismic and eye enucleated subjects on the horizontal and oblique meridians 35: 2523
REEVES, A.
Schirillo, J.A. and Reeves, A. Field additivity of the middle-wavelength cone pathway under various test and field configurations 35: 601
REGAN, D.
Hamstra, S.J. and Regan, D. Orientation discrimination in cyclopean vision 35: 365
Regan, D. and Vincent, A. Visual processing of looming and time to contact throughout the visual field 35: 1845
REICH, L.N.
Beard, B.L., Levi, D.M. and Reich, L.N. Perceptual learning in parafoveal vision 35: 1679
REINER, A.
Reiner, A., Shih, Y.-F. and Fitzgerald, M.E.C. The relationship of choroidal blood flow and accommodation to the control of ocular growth 35: 1227
REISNER, D.S.
Lue, C.-L., Hansen, R.M., Reisner, D.S., Findl, O., Petersen, R.A. and Fulton, A.B. The course of myopia in children with mild retinopathy of prematurity 35: 1329
REPKA, M.X.
Lewis, R.F., Zee, D.S., Repka, M.X., Guyton, D.L. and Miller, N.R. Regulation of static and dynamic ocular alignment in patients with trochlear nerve pareses 35: 3255
RETTENBACH, R.
Sireteanu, R. and Rettenbach, R. Perceptual learning in visual search: fast, enduring, but non-specific 35: 2037
RICHARDSON, A.
Cornelissen, P., Richardson, A., Mason, A., Fowler, S. and Stein, J. Contrast sensitivity and coherent motion detection measured at photopic luminance levels in dyslexics and controls 35: 1483
RIDDELL, P.M.
Hainline, L. and Riddell, P.M. Binocular alignment and vergence in early infancy 35: 3229
RIDDER, W.H. III
Ridder, W.H. III and Tomlinson, A. Spectral characteristics of blink suppression in normal observers 35: 2569

VAN RIJN, L.J.
van den Berg, A.V., van Rijn, L.J. and De Faber, J.Tj.H.N. Excess cyclovergence in patients with intermittent exotropia 35: 3265
RIVEST, J.
Cavanagh, P., Saida, S. and Rivest, J. The contribution of color to depth perceived from motion parallax 35: 1871
RIZZO, M.
Nawrot, M. and Rizzo, M. Motion perception deficits from midline cerebellar lesions in human 35: 723
ROBERTS, D.C.
Straumann, D., Zee, D.S., Solomon, D., Lasker, A.G. and Roberts, D.C. Transient torsion during and after saccades 35: 3321
RODINO, I.S.
Hogben, J.H., Rodino, I.S., Clark, C.D. and Pratt, C. A comparison of temporal integration in children with a specific reading disability and normal readers 35: 2067
ROGERS, G.T.
Hine, T.J., Cook, M. and Rogers, G.T. An illusion of relative motion dependent upon spatial frequency and orientation 35: 3093
ROMÁN, A.J.
Hood, D.C., Cideciyan, A.V., Román, A.J. and Jacobson, S.G. Enhanced S cone syndrome: evidence for an abnormally large number of S cones 35: 1473
ROMERO, J.
Romero, J., Nieves, J.L. and García-Beltrán, A. Human processing of colour information in the chromatic-frequency domain 35: 867
ROSENFELD, A.
Pizlo, Z., Rosenfeld, A. and Epelboim, J. An exponential pyramid model of the time-course of size processing 35: 1089
ROSSI, A.F.
Rossi, A.F. and Paradiso, M.A. Feature-specific effects of selective visual attention 35: 621
ROVAMO, J.
Iivanainen, A. and Rovamo, J. Detection of blue under chromatic adaptation: the effects of stimulus size and eccentricity 35: 589
Luntinen, O., Rovamo, J. and Näsänen, R. Modelling the increase of contrast sensitivity with grating area and exposure time 35: 2339
Rovamo, J., Mustonen, J. and Näsänen, R. Neural modulation transfer function of the human visual system at various eccentricities 35: 767
RUBIN, N.
Rubin, N., Hochstein, S. and Solomon, S. Restricted ability to recover three-dimensional global motion from one-dimensional motion signals: psychophysical observations 35: 463
Rubin, N., Solomon, S. and Hochstein, S. Restricted ability to recover three-dimensional global motion from one-dimensional local signals: theoretical observations 35: 569
RUSHTON, S.
Wann, J.P., Rushton, S. and Mon-Williams, M. Natural problems for stereoscopic depth perception in virtual environments 35: 2731

SAARINEN, J.
Saarinen, J. and Levi, D.M. Perceptual learning in vernier acuity: what is learned? 35: 519
Sarrinen, J. and Levi, D.M. Orientation anisotropy in vernier acuity 35: 2449
SACHTLER, W.L.
Sachtler, W.L. and Zaidi, Q. Visual processing of motion boundaries 35: 807

SAGI, D.
Ben-Av, M.B. and Sagi, D. Perceptual grouping by similarity and proximity: experimental results can be predicted by intensity autocorrelations 35: 853
SAIDA, S.
Cavanagh, P., Saida, S. and Rivest, J. The contribution of color to depth perceived from motion parallax 35: 1871
SATO, T.
Nishida, S. and Sato, T. Motion aftereffect with flickering test patterns reveals higher stages of motion processing 35: 477
SAUNDERS, K.J.
Saunders, K.J., Woodhouse, J.M. and Westall, C.A. Emmetropisation in human infancy: rate of change is related to initial refractive error 35: 1325
SCHAEFFEL, F.
Schaeffel, F. and Howland, H.C. Guest Editorial 35: 1135
Schaeffel, F., Bartmann, M., Hagel, G. and Zrenner, E. Studies on the role of the retinal dopamine/melatonin system in experimental refractive errors in chickens 35: 1247
SCHEIN, S.J.
Lapuerta, P. and Schein, S.J. A four-surface schematic eye of macaque monkey obtained by an optical method 35: 2245
SCHIRILLO, J.A.
Schirillo, J.A. and Reeves, A. Field additivity of the middle-wavelength cone pathway under various test and field configurations 35: 601
SCHLAG, J.
Dassonville, P., Schlag, J. and Schlag-Rey, M. The use of egocentric and exocentric location cues in saccadic programming 35: 2191
Schlag, J. and Schlag-Rey, M. Illusory localization of stimuli flashed in the dark before saccades 35: 2347
SCHLAG-REY, M.
Dassonville, P., Schlag, J. and Schlag-Rey, M. The use of egocentric and exocentric location cues in saccadic programming 35: 2191
Schlag, J. and Schlag-Rey, M. Illusory localization of stimuli flashed in the dark before saccades 35: 2347
SCHOR, C.M.
Liu, L. and Schor, C.M. Binocular combination of contrast signals from orthogonal orientation channels 35: 2559
Schor, C.M. and McCandless, J.W. An adaptable association between vertical and horizontal vergence 35: 3519
SEGUÍ, M.M.
Illueca, C., Capilla, P., Pons, A.M., Seguí, M.M. and Artigas, J.M. Influence of contrast on the recognition of defocused letters: a geometrical model 35: 2127
SEIDMAN, S.H.
Seidman, S.H., Leigh, R.J., Tomsak, R.L., Grant, M.P. and Dell'Osso, L.F. Dynamic properties of the human vestibulo-ocular reflex during head rotations in roll 35: 679
SEIPLE, W.
Seiple, W., Holopigian, K., Szlyk, J.P. and Greenstein, V.C. The effects of random element loss on letter identification: implications for visual acuity loss in patients with retinitis pigmentosa 35: 2057
Szlyk, J.P., Seiple, W. and Xie, W. Symmetry discrimination in patients with retinitis pigmentosa 35: 1633
SELTNER, R.L.P.
Seltner, R.L.P. and Stell, W.K. The effect of vasoactive intestinal peptide on development of form deprivation myopia in the chick: a pharmacological and immunocytochemical study 35: 1265

SEMPRINI, R.
Stanzione, P., Pierantozzi, M., Semprini, R., Tagliati, M., Traversa, R., Peppe, A., Pierelli, F. and Bernardi, G. Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
SENGPIEL, F.
Sengpiel, F., Blakemore, C. and Harrad, R. Interocular suppression in the primary visual cortex: a possible neural basis of binocular rivalry 35: 179
SHETH, N.V.
Sheth, N.V., Dell'Osso, L.F., Leigh, R.J., Van Doren, C.L. and Peckham, H.P. The effects of afferent stimulation on congenital nystagmus foveation periods 35: 2371
SHEVELL, S.K.
He, J.C. and Shevell, S.K. Variation in color matching and discrimination among deuteranomalous trichromats: theoretical implications of small differences in photopigments 35: 2579
Jenness, J.W. and Shevell, S.K. Color appearance with sparse chromatic context 35: 797
SHIFFRAR, M.
Ben-Av, M.B. and Shiffrar, M. Disambiguating velocity estimates across image space 35: 2889
Shiffrar, M., Li, X. and Lorenceau, J. Motion integration across differing image features 35: 2137
SHIH, Y.-F.
Reiner, A., Shih, Y.-F. and Fitzgerald, M.E.C. The relationship of choroidal blood flow and accommodation to the control of ocular growth 35: 1227
SHIMOJO, S.
Murakami, I. and Shimojo, S. Modulation of motion aftereffect by surround motion and its dependence on stimulus size and eccentricity 35: 1835
SHIU, L.-P.
Shiu, L.-P. and Pashler, H. Spatial attention and vernier acuity 35: 337
SIDEROV, J.
Harwerth, R.S., Smith, E.L. III and Siderov, J. Behavioral studies of local stereopsis and disparity vergence in monkeys 35: 1755
Siderov, J. and Harwerth, R.S. Stereopsis, spatial frequency and retinal eccentricity 35: 2329
SIEVING, P.A.
Frishman, L.J. and Sieving, P.A. Evidence for two sites of adaptation affecting the dark-adapted ERG of cats and primates 35: 435
SILVERSTEIN, D.A.
Carney, T., Silverstein, D.A. and Klein, S.A. Vernier acuity during image rotation and translation: visual performance limits 35: 1951
SIRETEANU, R.
Sireteanu, R. and Rettenbach, R. Perceptual learning in visual search: fast, enduring, but non-specific 35: 2037
SIVAK, J.G.
Irving, E.L., Callender, M.G. and Sivak, J.G. Inducing ametropias in hatchling chicks by defocus--aperture effects and cylindrical lenses 35: 1165
Pardue, M.T., Luer, C.A., Callender, M.G., Chou, B.R. and Sivak, J.G. The absence of a photopic influence on the refractive development of the embryonic eye of the clearnose skate *(Raja eglanteria)* 35: 1675
SKOCZENSKI, A.M.
Skoczenski, A.M. and Aslin, R.N. Assessment of vernier acuity development using the "equivalent intrinsic blur" paradigm 35: 1879
SLAUGHTER, M.M.
Tian, N. and Slaughter, M.M. Correlation of dynamic responses in the ON bipolar neuron and the *b*-wave of the electroretinogram 35: 1359

SLOOT, O.B.
Erkelens, C.J. and Sloot, O.B. Initial directions and landing positions of binocular saccades 35: 3297
SMALLMAN, H.S.
Smallman, H.S. Fine-to-coarse scale disambiguation in stereopsis 35: 1047
SMITH, A.T.
Bex, P.J., Edgar, G.K. and Smith, A.T. Sharpening of drifting, blurred images 35: 2539
Ledgeway, T. and Smith, A.T. The perceived speed of second-order motion and its dependence on stimulus contrast 35: 1421
SMITH, E.L. III
Harwerth, R.S., Smith, E.L. III and Siderov, J. Behavioral studies of local stereopsis and disparity vergence in monkeys 35: 1755
SMITH, G.
Atchison, D.A. and Smith, G. Continuous gradient index and shell models of the human lens 35: 2529
SMITH, S.T.
Smith, S.T., Curthoys, I.S. and Moore, S.T. The human ocular torsion position response during yaw angular acceleration 35: 2045
SMITH, V.
Meese, T.S., Smith, V. and Harris, M.G. Induced motion may account for the illusory transformation of optic flow fields found by Duffy and Wurtz 35: 981
SNOWDEN, R.J.
Hammett, S.T. and Snowden, R.J. The effect of contrast adaptation on briefly presented stimuli 35: 1721
Snowden, R.J., Hess, R.F. and Waugh, S.J. The processing of temporal modulation at different levels of retinal illuminance 35: 775
Snowden, R.J., Ullrich, D. and Bach, M. Isolation and characteristics of a steady-state visually-evoked potential in humans related to the motion of a stimulus 35: 1365
SOLMAN, R.
Williams, M.C., May, J.G., Solman, R. and Zhou, H. The effects of spatial filtering and contrast reduction on visual search times in good and poor readers 35: 285
SOLOMON, D.
Straumann, D., Zee, D.S., Solomon, D., Lasker, A.G. and Roberts, D.C. Transient torsion during and after saccades 35: 3321
SOLOMON, J.A.
Solomon, J.A and Sperling, G. 1st- and 2nd-order motion and texture resolution in central and peripheral vision 35: 59
SOLOMON, S.
Rubin, N., Hochstein, S. and Solomon, S. Restricted ability to recover three-dimensional global motion from one-dimensional motion signals: psychophysical observations 35: 463
Rubin, N., Solomon, S. and Hochstein, S. Restricted ability to recover three-dimensional global motion from one-dimensional local signals: theoretical observations 35: 569
SPANIO, M.
Fioravanti, F., Inchingolo, P., Pensiero, S. and Spanio, M. Saccadic eye movement conjugation in children 35: 3217
SPEHAR, B.
Spehar, B., Gilchrist, A. and Arend, L. The critical role of relative luminance relations in White's effect and grating induction 35: 2603
SPEKREIJSE, H.
Felius, J., van den Berg, T.J.T.P. and Spekreijse, H. Peripheral cone contrast sensitivity in glaucoma 35: 1791
Kubová, Z., Kuba, M., Spekreijse, H. and Blakemore, C. Contrast dependence of motion-onset and pattern-reversal evoked potentials 35: 197

Wietsma, J.J., Kamermans, M. and Spekreijse, H. Horizontal cells function normally in ethambutol-treated goldfish 35: 1667
SPERLING, G.
Lu, Z.-L. and Sperling, G. The functional architecture of human visual motion perception 35: 2697
Solomon, J.A and Sperling, G. 1st- and 2nd-order motion and texture resolution in central and peripheral vision 35: 59
Sutter, A., Sperling, G. and Chubb, C. Measuring the spatial frequency selectivity of second-order texture mechanisms 35: 915
SPILLMANN, L.
de Weert, C.M.M. and Spillmann, L. Assimilation: asymmetry between brightness and darkness? 35: 1413
SPITZER, H.
Grunfeld, E.D. and Spitzer, H. Spatio-temporal model for subjective colours based on colour coded ganglion cells 35: 275
Urbach, D and Spitzer, H. Attentional effort modulated by task difficulty 35: 2169
SQUIRES, M.A.
Napper, G.A., Brennan, N.A., Barrington, M., Squires, M.A., Vessey, G.A. and Vingrys, A.J. The duration of normal visual exposure necessary to prevent form deprivation myopia in chicks 35: 1337
STANZIONE, P.
Stanzione, P., Pierantozzi, M., Semprini, R., Tagliati, M., Traversa, R., Peppe, A., Pierelli, F. and Bernardi, G. Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
VAN DER STEEN, J.
Bruno, P., Inchingolo, P. and van der Steen, J. Unequal saccades produced by aniseikonic patterns: a model approach 35: 3473
van der Steen, J. and Bruno, P. Unequal amplitude saccades produced by aniseikonic patterns: effects of viewing distance 35: 3459
STEIN, J.
Cornelissen, P., Richardson, A., Mason, A., Fowler, S. and Stein, J. Contrast sensitivity and coherent motion detection measured at photopic luminance levels in dyslexics and controls 35: 1483
STEINBACH, M.J.
Reed, M.J., Steinbach, M.J., Ono, H., Kraft, S. and Gallie, B. Alignment ability of strabismic and eye enucleated subjects on the horizontal and oblique meridians 35: 2523
STEINMAN, B.A.
Steinman, B.A., Steinman, S.B. and Lehmkuhle, S. Visual attention mechanisms show a center-surround organization 35: 1859
STEINMAN, R.M.
Collewijn, H., Erkelens, C.J. and Steinman, R.M. Voluntary binocular gaze-shifts in the plane of regard: dynamics of version and vergence 35: 3335
Epelboim, J., Steinman, R.M., Kowler, E., Edwards, M., Pizlo, Z., Erkelens, C.J. and Collewijn, H. The function of visual search and memory in sequential looking tasks 35: 3401
STEINMAN, S.B.
Steinman, B.A., Steinman, S.B. and Lehmkuhle, S. Visual attention mechanisms show a center-surround organization 35: 1859
Trick, G.L., Steinman, S.B. and Amyot, M. Motion perception deficits in glaucomatous optic neuropathy 35: 2225

STELL, W.K.
Seltner, R.L.P. and Stell, W.K. The effect of vasoactive intestinal peptide on development of form deprivation myopia in the chick: a pharmacological and immunocytochemical study 35: 1265
STONE, L.S.
Verghese, P. and Stone, L.S. Combining speed information across space 35: 2811
STONE, R.A.
Stone, R.A., Lin, T., Desai, D. and Capehart, C. Photoperiod, early post-natal eye growth, and visual deprivation 35: 1195
STRANG, N.C.
Winn, B., Bradley, A., Strang, N.C., McGraw, P.V. and Thibos, L.N. Reversals of the colour-depth illusion explained by ocular chromatic aberration 35: 2675
STRAUBE, A.
Straube, A. and Deubel, H. Rapid gain adaptation affects the dynamics of saccadic eye movements in humans 35: 3451
STRAUMANN, D.
Straumann, D., Zee, D.S., Solomon, D., Lasker, A.G. and Roberts, D.C. Transient torsion during and after saccades 35: 3321
STROMEYER, C.F. III
Chaparro, A., Stromeyer, C.F. III, Chen, G. and Kronauer, R.E. Human cones appear to adapt at low light levels: measurements on the red-green detection mechanism 35: 3103
SUGITA, Y.
Sugita, Y. Contrast and assimilation on different depth planes 35: 881
SUTTER, A.
Sutter, A. and Graham, N. Investigating simple and complex mechanisms in texture segregation using the speed-accuracy tradeoff method 35: 2825
Sutter, A., Sperling, G. and Chubb, C. Measuring the spatial frequency selectivity of second-order texture mechanisms 35: 915
SUZUKI, T.
Suzuki, T., Narita, K., Yoshihara, K., Nagai, K. and Kito, Y. Phosphatidyl inositol-phospholipase C in squid photoreceptor membrane is activated by stable metarhodopsin via GTP-binding protein, Gq 35: 1011
SZLYK, J.P.
Seiple, W., Holopigian, K., Szlyk, J.P. and Greenstein, V.C. The effects of random element loss on letter identification: implications for visual acuity loss in patients with retinitis pigmentosa 35: 2057
Szlyk, J.P., Seiple, W. and Xie, W. Symmetry discrimination in patients with retinitis pigmentosa 35: 1633

TAGLIATI, M.
Stanzione, P., Pierantozzi, M., Semprini, R., Tagliati, M., Traversa, R., Peppe, A., Pierelli, F. and Bernardi, G. Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
TAKAGI, M.
Takagi, M., Frohman, E.M. and Zee, D.S. Gap-overlap effects on latencies of saccades, vergence and combined vergence-saccades in humans 35: 3373
TANAKA, J.R.
Farah, M.J., Wilson, K.D., Drain, H.M. and Tanaka, J.R. The inverted face inversion effect in prosopagnosia: evidence for mandatory, face-specific perceptual mechanisms 35: 2089
TELLER, D.Y.
Epelbaum, M. and Teller, D.Y. Infant eye movement asymmetries: temporal-nasal asymmetry is reversed at isoluminance in 2-month-olds 35: 1889

THIBOS, L.N.
Winn, B., Bradley, A., Strang, N.C., McGraw, P.V. and Thibos, L.N. Reversals of the colour-depth illusion explained by ocular chromatic aberration 35: 2675
THOMAS, C.W.
Zivotofsky, A.Z., Averbuch-Heller, L., Thomas, C.W., Das, V.E., Discenna, A.O. and Leigh, R.J. Tracking of illusory target motion: differences between gaze and head responses 35: 3029
THORN, F.
Gwiazda, J., Bauer, J., Thorn, F. and Held, R. A dynamic relationship between myopia and blur-driven accommodation in school-aged children 35: 1299
TIAN, N.
Tian, N. and Slaughter, M.M. Correlation of dynamic responses in the ON bipolar neuron and the *b*-wave of the electroretinogram 35: 1359
TJAN, B.S.
Braje, W.L., Tjan, B.S. and Legge, G.E. Human efficiency for recognizing and detecting low-pass filtered objects 35: 2955
Tjan, B.S., Braje, W.L., Legge, G.E. and Kersten, D. Human efficiency for recognizing 3-D objects in luminance noise 35: 3053
TODD, J.T.
Todd, J.T. and Norman, J.F. The effects of spatiotemporal integration on maximum displacement thresholds for the detection of coherent motion 35: 2287
TOMLINSON, A.
Ridder, W.H. III and Tomlinson, A. Spectral characteristics of blink suppression in normal observers 35: 2569
TOMSAK, R.L.
Seidman, S.H., Leigh, R.J., Tomsak, R.L., Grant, M.P. and Dell'Osso, L.F. Dynamic properties of the human vestibulo-ocular reflex during head rotations in roll 35: 679
TRAVERSA, R.
Stanzione, P., Pierantozzi, M., Semprini, R., Tagliati, M., Traversa, R., Peppe, A., Pierelli, F. and Bernardi, G. Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
TREMBLAY, F.
Tremblay, F., Laroche, R.G. and De Becker, I. The electroretinographic diagnosis of the incomplete form of congenital stationary night blindness 35: 2383
TREUE, S.
Hildreth, E.C., Ando, H., Andersen, R.A. and Treue, S. Recovering three-dimensional structure from motion with surface reconstruction 35: 117
Treue, S., Andersen, R.A., Ando, H. and Hildreth, E.C. Structure-from-motion: perceptual evidence for surface interpolation 35: 139
TREUTWEIN, B.
Treutwein, B. Adaptive psychophysical procedures 35: 2503
TRICK, G.L.
Trick, G.L., Steinman, S.B. and Amyot, M. Motion perception deficits in glaucomatous optic neuropathy 35: 2225
TROILO, D.
Glasser, A., Murphy, C.J., Troilo, D. and Howland, H.C. The mechanism of lenticular accommodation in chicks 35: 1525
Li, T., Troilo, D., Glasser, A. and Howland, H.C. Constant light produces severe corneal flattening and hyperopia in chickens 35: 1203
Troilo, D., Li, T., Glasser, A. and Howland, H.C. Differences in eye growth and the response to visual deprivation in different strains of chicken 35: 1211

TSUI, W.H.
Van Gelder, P., Lebedev, S., Liu, P.M. and Tsui, W.H. Anticipatory saccades in smooth pursuit: task effects and pursuit vector after saccades 35: 667
TUNLEY, H.
Mather, G. and Tunley, H. Motion detection in interleaved random dot patterns: evidence for a rectifying nonlinearity preceding motion analysis 35: 2117
Mather, G. and Tunley, H. Temporal filtering enhances direction discrimination in random-dot patterns 35: 2105
TURANO, K.
Watson, A.B. and Turano, K. The optimal motion stimulus 35: 325
TYLER, C.W.
Hardage, L. and Tyler, C.W. Induced twinkle aftereffect as a probe of dynamic visual processing mechanisms 35: 757

ULLRICH, D.
Snowden, R.J., Ullrich, D. and Bach, M. Isolation and characteristics of a steady-state visually-evoked potential in humans related to the motion of a stimulus 35: 1365
URBACH, D.
Urbach, D and Spitzer, H. Attentional effort modulated by task difficulty 35: 2169

VAN DOREN, C.L.
Sheth, N.V., Dell'Osso, L.F., Leigh, R.J., Van Doren, C.L. and Peckham, H.P. The effects of afferent stimulation on congenital nystagmus foveation periods 35: 2371
VAN GELDER, P.
Van Gelder, P., Lebedev, S., Liu, P.M. and Tsui, W.H. Anticipatory saccades in smooth pursuit: task effects and pursuit vector after saccades 35: 667
VAN GISBERGEN, J.A.M.
Melis, B.J.M. and Van Gisbergen, J.A.M. Analysis of saccadic short-term plasticity in three dimensions 35: 3423
Minken, A.W.H., Gielen, C.C.A.M. and Van Gisbergen, J.A.M. An alternative three-dimensional interpretation of Hering's equal-innervation law for version and vergence eye movements 35: 93
VARJÚ, D.
Horváth, G. and Varjú, D. Underwater refraction-polarization patterns of skylight perceived by aquatic animals through Snell's window of the flat water surface 35: 1651
VERGHESE, P.
Verghese, P. and Stone, L.S. Combining speed information across space 35: 2811
VERSINO, M.
Zambarbieri, D., Beltrami, G. and Versino, M. Saccade latency toward auditory targets depends on the relative position of the sound source with respect to the eyes 35: 3305
VERSTRATEN, F.A.J.
Lankheet, M.J.M. and Verstraten, F.A.J. Attentional modulation of adaptation to two-component transparent motion 35: 1401
VESSEY, G.A.
Napper, G.A., Brennan, N.A., Barrington, M., Squires, M.A., Vessey, G.A. and Vingrys, A.J. The duration of normal visual exposure necessary to prevent form deprivation myopia in chicks 35: 1337
VILIS, T.
Mikhael, S., Nicolle, D. and Vilis, T. Rotation of Listing's plane by horizontal, vertical and oblique prism-induced vergence 35: 3243
VINCENT, A.
Regan, D. and Vincent, A. Visual processing of looming and time to contact throughout the visual field 35: 1845

VINGRYS, A.J.
Napper, G.A., Brennan, N.A., Barrington, M., Squires, M.A., Vessey, G.A. and Vingrys, A.J. The duration of normal visual exposure necessary to prevent form deprivation myopia in chicks 35: 1337
VITANOVA, L.
Popova, E., Kupenova, P., Vitanova, L. and Mitova, L. Effect of 2-amino-4-phosphonobutyrate on ERG OFF-response after glycinergic and GABAergic blockade 35: 1945
VOLBRECHT, V.J.
Bieber, M.L., Volbrecht, V.J. and Werner, J.S. Spectral efficiency measured by heterochromatic flicker photometry is similar in human infants and adults 35: 1385
VOLCHAN, E.
Volchan, E. and Gilbert, C.D. Interocular transfer of receptive field expansion in cat visual cortex 35: 1

WAGNER, H.-J.
Fröhlich, E., Negishi, K. and Wagner, H.-J. Patterns of rod proliferation in deep-sea fish retinae 35: 1799
WALLMAN, J.
Kiorpes, L. and Wallman, J. Does experimentally-induced amblyopia cause hyperopia in monkeys? 35: 1289
Wallman, J., Wildsoet, C., Xu, A., Gottlieb, M.D., Nickla, D.L., Marran, L., Krebs, W. and Christensen, A.M. Moving the retina: choroidal modulation of refractive state 35: 37
Wildsoet, C. and Wallman, J. Choroidal and scleral mechanisms of compensation for spectacle lenses in chicks 35: 1175
WALTERS, M.M.
Brown, A.M., Lindsey, D.T., McSweeney, E.M. and Walters, M.M. Infant luminance and chromatic contrast sensitivity: optokinetic nystagmus data on 3-month-olds 35: 3145
WANDELL, B.A.
Chichilnisky, E.-J. and Wandell, B.A. Photoreceptor sensitivity changes explain color appearance shifts induced by large uniform backgrounds in dichoptic matching 35: 239
WANN, J.P.
Wann, J.P., Rushton, S. and Mon-Williams, M. Natural problems for stereoscopic depth perception in virtual environments 35: 2731
WATAMANIUK, S.N.J.
Bravo, M.J. and Watamaniuk, S.N.J. Evidence for two speed signals: a coarse local signal for segregation and a precise global signal for discrimination 35: 1691
Grzywacz, N.M., Watamaniuk, S.N.J. and McKee, S.P. Temporal coherence theory for the detection and measurement of visual motion 35: 3183
Harris, J.M. and Watamaniuk, S.N.J. Speed discrimination of motion-in-depth using binocular cues 35: 885
Watamaniuk, S.N.J., McKee, S.P. & Grzywacz, N.M. Detecting a trajectory embedded in random-direction motion noise 35: 65
WATANABE, T.
Watanabe, T. and Cole, R. Propagation of local motion correspondence 35: 2853
Watanabe, T., Nanez, J.E. Sr. and Moreno, M.A. Depth release of illusory contour shape in the Ehrenstein grid 35: 2845
Watanabe, T. Orientation and color processing for partially occluded objects 35: 647

WATERWORTH, M.D.
Atchison, D.A., Collins, M.J., Wildsoet, C.F., Christensen, J. and Waterworth, M.D. Measurement of monochromatic ocular aberrations of human eyes as a function of accommodation by the Howland aberroscope technique 35: 313
WATSON, A.B.
Watson, A.B. and Turano, K. The optimal motion stimulus 35: 325
WAUGH, S.J.
Snowden, R.J., Hess, R.F. and Waugh, S.J. The processing of temporal modulation at different levels of retinal illuminance 35: 775
WEBER, H.
Weber, H. and Fischer, B. Gap duration and location of attention focus modulate the occurrence of left/right asymmetries in the saccadic reaction times of human subjects 35: 987
Weber, H., Biscaldi, M. and Fischer, B. Intertrial effects of randomization on saccadic reaction times in human observers 35: 2615
DE WEERT, C.M.M.
de Weert, C.M.M. and Spillmann, L. Assimilation: asymmetry between brightness and darkness? 35: 1413
WEHRHAHN, C.
Lee, B.B., Wehrhahn, C., Westheimer, G. and Kremers, J. The spatial precision of macaque ganglion cell responses in relation to vernier acuity of human observers 35: 2743
WENDEROTH, P.
van der Zwan, R. and Wenderoth, P. Mechanisms of purely subjective contour tilt aftereffects 35: 2547
WERNER, J.S.
Bieber, M.L., Volbrecht, V.J. and Werner, J.S. Spectral efficiency measured by heterochromatic flicker photometry is similar in human infants and adults 35: 1385
Peterzell, D.H., Werner, J.S. and Kaplan, P.S. Individual differences in contrast sensitivity functions: longitudinal study of 4-, 6-, and 8-month-old human infants 35: 961
WESTALL, C.A.
Saunders, K.J., Woodhouse, J.M. and Westall, C.A. Emmetropisation in human infancy: rate of change is related to initial refractive error 35: 1325
WESTBROOK, A.M.
Westbrook, A.M., Crewther, S.G., Liang, H., Beresford, J.A., Allen, M., Keller, I. and Crewther, D.P. Formoguanamine-induced inhibition of deprivation myopia in chick is accompanied by choroidal thinning while retinal function is retained 35: 2075
WESTHEIMER, G.
Fahle, M. and Westheimer, G. On the time-course of inhibition in the stereoscopic perception of rows of dots 35: 1393
Lee, B.B., Wehrhahn, C., Westheimer, G. and Kremers, J. The spatial precision of macaque ganglion cell responses in relation to vernier acuity of human observers 35: 2743
WESTLAND, S.
Foster, D.H. and Westland, S. Orientation contrast vs orientation in line-target detection 35: 733
WHITE, J.M.
White, J.M. and Wick, B. Accommodation in humans with juvenile macular degeneration 35: 873
WICK, B.
White, J.M. and Wick, B. Accommodation in humans with juvenile macular degeneration 35: 873

VON WIEGAND, T.E.
von Wiegand, T.E., Hood, D.C. and Graham, N. Testing a computational model of light-adaptation dynamics 35: 3037
WIETSMA, J.J.
Wietsma, J.J., Kamermans, M. and Spekreijse, H. Horizontal cells function normally in ethambutol-treated goldfish 35: 1667
WILCOX, L.M.
Wilcox, L.M. and Hess, R.F. D_{max} for stereopsis depends on size, not spatial frequency content 35: 1061
WILDSOET, C.F.
Atchison, D.A., Collins, M.J., Wildsoet, C.F., Christensen, J. and Waterworth, M.D. Measurement of monochromatic ocular aberrations of human eyes as a function of accommodation by the Howland aberroscope technique 35: 313
Collins, M.J., Wildsoet, C.F. and Atchison, D.A. Monochromatic aberrations and myopia 35: 1157
Wallman, J., Wildsoet, C., Xu, A., Gottlieb, M.D., Nickla, D.L., Marran, L., Krebs, W. and Christensen, A.M. Moving the retina: choroidal modulation of refractive state 35: 37
Wildsoet, C. and Wallman, J. Choroidal and scleral mechanisms of compensation for spectacle lenses in chicks 35: 1175
WILKINSON, F.
Wilkinson, F. and Lessard, J. Orientation, density and size as cues to texture segmentation in kittens 35: 2463
WILLIAMS, M.C.
Williams, M.C., May, J.G., Solman, R. and Zhou, H. The effects of spatial filtering and contrast reduction on visual search times in good and poor readers 35: 285
WILLIAMS, R.W.
Dell'Osso, L.F. and Williams R.W. Ocular motor abnormalities in achiasmatic mutant Belgian sheepdogs: unyoked eye movements in a mammal 35: 109
WILSON, K.D.
Farah, M.J., Wilson, K.D., Drain, H.M. and Tanaka, J.R. The inverted face inversion effect in prosopagnosia: evidence for mandatory, face-specific perceptual mechanisms 35: 2089
WINFIELD, N.R.
Gilmartin, B. and Winfield, N.R. The effect of topical ß-adrenoceptor antagonists on accommodation in emmetropia and myopia 35: 1305
WINN, B.
Winn, B., Bradley, A., Strang, N.C., McGraw, P.V. and Thibos, L.N. Reversals of the colour-depth illusion explained by ocular chromatic aberration 35: 2675
WISHART, K.A.
Frisby, J.P., Buckley, D., Wishart, K.A., Porrill, J., Gårding, J. and Mayhew, J.E.W. Interaction of stereo and texture cues in the perception of three-dimensional steps 35: 1463
WOLFSON, S.S.
Wolfson, S.S. and Landy, M.S. Discrimination of orientation-defined texture edges 35: 2863
WONG, V.A.
Wong, V.A. and Graham, S.L. Effect of repeat use and coating defects of gold foil electrodes on electroretinogram recording 35: 2795
WOOD, J.
Collins, M., Davis, B. and Wood, J. Microfluctuations of steady-state accommodation and the cardiopulmonary system 35: 2491
WOODHOUSE, J.M.
Saunders, K.J., Woodhouse, J.M. and Westall, C.A. Emmetropisation in human infancy: rate of change is related to initial refractive error 35: 1325

WU, S.
Wu, S., Burns, S.A. and Elsner, A.E. Effects of flicker adaptation and temporal gain control on the flicker ERG 35: 2943
WUERGER, S.M.
Wuerger, S.M., Maloney, L.T. and Krauskopf, J. Proximity judgments in color space: tests of a Euclidean color geometry 35: 827
WURTZ, R.H.
Duffy, C.J. and Wurtz, R.H. Mechanism of the illusory transformation of optic flow fields 35: 985
WYATT, H.J.
Pola, J., Wyatt, H.J. and Lustgarten, M. Visual fixation of a target and suppression of optokinetic nystagmus: effects of varying target feedback 35: 1079
Wyatt, H.J., Pola, J., Lustgarten, M. and Aksionoff, E. Optokinetic nystagmus (OKN) suppression by fixation of a stabilized target: the effect of OKN-stimulus predictability 35: 2903
Wyatt, H.J. The form of the human pupil 35: 2021

XIE, W.
Szlyk, J.P., Seiple, W. and Xie, W. Symmetry discrimination in patients with retinitis pigmentosa 35: 1633
XU, A.
Wallman, J., Wildsoet, C., Xu, A., Gottlieb, M.D., Nickla, D.L., Marran, L., Krebs, W. and Christensen, A.M. Moving the retina: choroidal modulation of refractive state 35: 37

YAGER, D.
Davis, E.T., Yager, D., King, R.A. and Kirkland, B.A. A labeled lines explanation of the perceived spatial frequency of moderate-, near-threshold- and zero-contrast spatial patterns 35: 1025
Kruger, P.B., Mathews, S., Aggarwala, K.R., Yager, D. and Kruger, E.S. Accommodation responds to changing contrast of long, middle and short spectral-waveband components of the retinal image 35: 2415
YAGI, T.
Ohshima, S., Yagi, T. and Funahashi, Y. Computational studies on the interaction between red cone and H1 horizontal cell 35: 149
YAMAMOTO, S.
Yamamoto, S., Gouras, P. and Lopez, R. The focal cone electroretinogram 35: 1641
YANG, J.
Yang, J. and Makous, W. Modeling pedestal experiments with amplitude instead of contrast 35: 1979
Yang, J., Qi, X. and Makous, W. Zero frequency masking and a model of contrast sensitivity 35: 1965
YANG, Y.
Yang, Y. and Blake, R. On the accuracy of surface reconstruction from disparity interpolation 35: 949
YAZULLA, S.
Yazulla, S. and Lin, Z.-S. Differential effects of dopamine depletion on the distribution of [^{3}H]SCH 23390 and [^{3}H]spiperone binding sites in the goldfish retina 35: 2409
YGGE, J.
Ygge, J. and Zee, D.S. Control of vertical eye alignment in three-dimensional space 35: 3169
YOSHIHARA, K.
Suzuki, T., Narita, K., Yoshihara, K., Nagai, K. and Kito, Y. Phosphatidyl inositol-phospholipase C in squid photoreceptor membrane is activated by stable metarhodopsin via GTP-binding protein, Gq 35: 1011

YOUNG, M.
Landy, M.S., Maloney, L.T., Johnston, E.B. and Young, M. Measurement and modeling of depth cue combination: in defense of weak fusion 35: 389
YOUNG, R.S.L.
Kimura, E. and Young, R.S.L. Nature of the pupillary responses evoked by chromatic flashes on a white background 35: 897
Young, R.S.L., Kimura, E. and DeLucia, P.R. A pupillometric correlate of scotopic visual acuity 35: 2235

ZADNIK, K.
Mutti, D.O. and Zadnik, K. The utility of three predictors of childhood myopia: a Bayesian analysis 35: 1345
Mutti, D.O., Zadnik, K. and Adams, A.J. The equivalent refractive index of the crystalline lens in childhood 35: 1565
Zadnik, K. and Mutti, D.O. How applicable are animal myopia models to human juvenile onset myopia? 35: 1283
ZAIDI, Q.
Sachtler, W.L. and Zaidi, Q. Visual processing of motion boundaries 35: 807
ZAMBARBIERI, D.
Zambarbieri, D., Beltrami, G. and Versino, M. Saccade latency toward auditory targets depends on the relative position of the sound source with respect to the eyes 35: 3305
ZEE, D.S.
Lewis, R.F., Zee, D.S., Repka, M.X., Guyton, D.L. and Miller, N.R. Regulation of static and dynamic ocular alignment in patients with trochlear nerve pareses 35: 3255
Straumann, D., Zee, D.S., Solomon, D., Lasker, A.G. and Roberts, D.C. Transient torsion during and after saccades 35: 3321
Takagi, M., Frohman, E.M. and Zee, D.S. Gap-overlap effects on latencies of saccades, vergence and combined vergence-saccades in humans 35: 3373
Ygge, J. and Zee, D.S. Control of vertical eye alignment in three-dimensional space 35: 3169
ZEEVI, Y.Y.
Geri, G.A., Lyon, D.R. and Zeevi, Y.Y. Preattentive equivalence of multicomponent Gabor textures in the central and peripheral visual field 35: 495
ZHOU, H.
Williams, M.C., May, J.G., Solman, R. and Zhou, H. The effects of spatial filtering and contrast reduction on visual search times in good and poor readers 35: 285
ZHOU, W.
King, W.M. and Zhou, W. Initiation of disjunctive smsooth pursuit in monkeys: evidence that Hering's law of equal innervation is not obeyed by the smooth pursuit system 35: 3389
ZIEGLER, L.R.
Ziegler, L.R. and Dowling, W.J. The hierarchical nature of perceiving direction of motion in depth from optic flow 35: 1435
ZIVOTOFSKY, A.Z.
Zivotofsky, A.Z., Averbuch-Heller, L., Thomas, C.W., Das, V.E., Discenna, A.O. and Leigh, R.J. Tracking of illusory target motion: differences between gaze and head responses 35: 3029
ZRENNER, E.
Schaeffel, F., Bartmann, M., Hagel, G. and Zrenner, E. Studies on the role of the retinal dopamine/melatonin system in experimental refractive errors in chickens 35: 1247
VAN DER ZWAN, R.
van der Zwan, R. and Wenderoth, P. Mechanisms of purely subjective contour tilt aftereffects 35: 2547

SUBJECT INDEX

ABERRATION
Measurement of monochromatic ocular aberrations of human eyes as a function of accommodation by the Howland aberroscope technique 35: 313
Monochromatic aberrations and myopia 35: 1157
Accommodation responds to changing contrast of long, middle and short spectral-waveband components of the retinal image 35: 2415
Reversals of the colour-depth illusion explained by ocular chromatic aberration 35: 2675
Colour induced stereopsis in images with achromatic information and only one other colour 35: 3161

ABSOLUTE THRESHOLD (*see* DETECTION THRESHOLD)

ACCOMMODATION
Moving the retina: choroidal modulation of refractive state 35: 37
Fourth Purkinje image signals reveal eye-lens deviations and retinal image distortions during saccades 35: 529
The effect of perceived distance on accommodation under binocular steady-state conditions 35: 791
Accommodation in humans with juvenile macular degeneration 35: 873
Monochromatic aberrations and myopia 35: 1157
The relationship of choroidal blood flow and accommodation to the control of ocular growth 35: 1227
A dynamic relationship between myopia and blur-driven accommodation in school-aged children 35: 1299
The effect of topical ß-adrenoceptor antagonists on accommodation in emmetropia and myopia 35: 1305
The mechanism of lenticular accommodation in chicks 35: 1525
In vitro changes in back vertex distance of chick and pigeon lenses: species differences and the effects of aging 35: 1813
Accommodation responds to changing contrast of long, middle and short spectral-waveband components of the retinal image 35: 2415
Microfluctuations of steady-state accommodation and the cardiopulmonary system 35: 2491
Absence of adaptive plasticity after voluntary vergence and accommodation 35: 2773

ACUITY (*see also* HYPERACUITY; STEREOPSIS)
1st- and 2nd-order motion and texture resolution in central and peripheral vision 35: 59
Object perception by visually impaired people at different light levels 35: 161
Interobserver agreement for measurement of grating acuity and interocular acuity differences with the Teller acuity card procedure 35: 303
Visual acuity vs letter contrast sensitivity in retinitis pigmentosa 35: 1495
Underwater refraction-polarization patterns of skylight perceived by aquatic animals through Snell's window of the flat water surface 35: 1651
Psychophysics of reading--XIII. Predictors of magnifier-aided reading speed in low vision 35: 1931
Vernier acuity during image rotation and translation: visual performance limits 35: 1951
The effects of random element loss on letter identification: implications for visual acuity loss in patients with retinitis pigmentosa 35: 2057
Influence of contrast on the recognition of defocused letters: a geometrical model 35: 2127
A pupillometric correlate of scotopic visual acuity 35: 2235
The effects of afferent stimulation on congenital nystagmus foveation periods 35: 2371
The effect of nearby luminance contrast polarity on color boundary localization 35: 2767

Effect of retinal image motion on visual acuity and contour interaction in congenital nystagmus 35: 3071

ADAPTATION
Interocular transfer of receptive field expansion in cat visual cortex 35: 1
Network simulations of retinal and cortical contributions to color constancy 35: 413
Evidence for two sites of adaptation affecting the dark-adapted ERG of cats and primates 35: 435
Induced twinkle aftereffect as a probe of dynamic visual processing mechanisms 35: 757
Attentional modulation of adaptation to two-component transparent motion 35: 1401
The effect of contrast adaptation on briefly presented stimuli 35: 1721
Changes in retinal time scale under background light: observations on rods and ganglion cells in the frog retina 35: 2255
Simultaneous colour constancy revisited: an analysis of viewing strategies 35: 2431
Control of vertical eye alignment in three-dimensional space 35: 3169
Regulation of static and dynamic ocular alignment in patients with trochlear nerve pareses 35: 3255
Excess cyclovergence in patients with intermittent exotropia 35: 3265
Rapid gain adaptation affects the dynamics of saccadic eye movements in humans 35: 3451
Unequal amplitude saccades produced by aniseikonic patterns: effects of viewing distance 35: 3459
Unequal saccades produced by aniseikonic patterns: a model approach 35: 3473
An adaptable association between vertical and horizontal vergence 35: 3519

ADAPTATION, CHROMATIC
Detection of blue under chromatic adaptation: the effects of stimulus size and eccentricity 35: 589
Color appearance with sparse chromatic context 35: 797
Human cones appear to adapt at low light levels: measurements on the red-green detection mechanism 35: 3103

ADAPTATION, DARK (*see also* BLEACHING)
Adaptation mechanisms in spatial vision--I. Bleaches and backgrounds 35: 1585

ADAPTATION, LIGHT
Adaptation mechanisms in spatial vision--I. Bleaches and backgrounds 35: 1585
Adaptation mechanisms in spatial vision--II. Flash thresholds and background adaptation 35: 1595
Testing a computational model of light-adaptation dynamics 35: 3037

ADAPTATION, MOTION
Motion aftereffect after monocular adaptation to filled-in motion at the blind spot 35: 1041

ADAPTATION, OCULOMOTOR
Perceptual learning in parafoveal vision 35: 1679
Absence of adaptive plasticity after voluntary vergence and accommodation 35: 2773
Plasticity of human motion processing mechanisms following surgery for infantile esotropia 35: 3279
Voluntary binocular gaze-shifts in the plane of regard: dynamics of version and vergence 35: 3335
Analysis of saccadic short-term plasticity in three dimensions 35: 3423
Binocular interactions in rapid saccadic adaptation 35: 3439
Separate adaptive mechanisms for the control of reactive and volitional saccadic eye movements 35: 3529

AFTEREFFECTS (*see also* ILLUSION; PERSISTENCE)
Local and global factors in spatially-contingent coloured aftereffects 35: 207
Motion aftereffect with flickering test patterns reveals higher stages of motion processing 35: 477
Orientation and color processing for partially occluded objects 35: 647
Induced twinkle aftereffect as a probe of dynamic visual processing mechanisms 35: 757
Motion aftereffect after monocular adaptation to filled-in motion at the blind spot 35: 1041
Attentional modulation of adaptation to two-component transparent motion 35: 1401
The hierarchical nature of perceiving direction of motion in depth from optic flow 35: 1435
Motion aftereffect with flickering test stimuli depends on adapting velocity 35: 1825
Modulation of motion aftereffect by surround motion and its dependence on stimulus size and eccentricity 35: 1835
The role of exocentric reference frames in the perception of visual direction 35: 2267
Mechanisms of purely subjective contour tilt aftereffects 35: 2547
Binocular interactions in rapid saccadic adaptation 35: 3439

AFTERIMAGES (*see* AFTEREFFECTS)

AGING
Light scattering in donor lenses 35: 169
Relationship between visual sensitivity and target localization in older adults 35: 579
A covariance structure analysis of flicker sensitivity 35: 1575
In vitro changes in back vertex distance of chick and pigeon lenses: species differences and the effects of aging 35: 1813

ALIASING
Refraction, aliasing, and the absence of motion reversals in peripheral vision 35: 939
The perceived orientation of aliased lines 35: 2759

ALIGNMENT (*see* HYPERACUITY)

AMBLYOPIA
Does experimentally-induced amblyopia cause hyperopia in monkeys? 35: 1289
The electroretinographic diagnosis of the incomplete form of congenital stationary night blindness 35: 2383
Spatial frequency channels in experimentally strabismic monkeys revealed by oblique masking 35: 2737

APPARENT MOTION (*see* MOTION PERCEPTION (APPARENT MOTION))

ATTENTION
Spatial attention and vernier acuity 35: 337
Relationship between visual sensitivity and target localization in older adults 35: 579
Feature-specific effects of selective visual attention 35: 621
Anticipatory saccades in smooth pursuit: task effects and pursuit vector after saccades 35: 667
Gap duration and location of attention focus modulate the occurrence of left/right asymmetries in the saccadic reaction times of human subjects 35: 987
Attentional modulation of adaptation to two-component transparent motion 35: 1401
Visual attention mechanisms show a center-surround organization 35: 1859
The role of attention in the programming of saccades 35: 1897
Attentional effort modulated by task difficulty 35: 2169
Intertrial effects of randomization on saccadic reaction times in human observers 35: 2615
The functional architecture of human visual motion perception 35: 2697

The influence of two spatially distinct primers and attribute priming on motion induction 35: 3119
The function of visual search and memory in sequential looking tasks 35: 3401

BINOCULAR RIVALRY
Interocular suppression in the primary visual cortex: a possible neural basis of binocular rivalry 35: 179
Visual fixation of a target and suppression of optokinetic nystagmus: effects of varying target feedback 35: 1079
Binocular combination of contrast signals from orthogonal orientation channels 35: 2559
Spectral characteristics of blink suppression in normal observers 35: 2569

BINOCULAR VISION
An alternative three-dimensional interpretation of Hering's equal-innervation law for version and vergence eye movements 35: 93
Stereopsis due to luminance differences in the two eyes 35: 255
Stereopsis and binocularity in the squirrel monkey 35: 345
Orientation and color processing for partially occluded objects 35: 647
Depth discrimination of a crowded line is better when it is more luminant than the lines crowding it 35: 657
Stereopsis, vertical disparity and relief transformations 35: 703
Induced twinkle aftereffect as a probe of dynamic visual processing mechanisms 35: 757
The effect of perceived distance on accommodation under binocular steady-state conditions 35: 791
Contrast and assimilation on different depth planes 35: 881
Speed discrimination of motion-in-depth using binocular cues 35: 885
On the accuracy of surface reconstruction from disparity interpolation 35: 949
Behavioral studies of local stereopsis and disparity vergence in monkeys 35: 1755
Stereopsis, spatial frequency and retinal eccentricity 35: 2329
Binocular combination of contrast signals from orthogonal orientation channels 35: 2559
Reversals of the colour-depth illusion explained by ocular chromatic aberration 35: 2675
Natural problems for stereoscopic depth perception in virtual environments 35: 2731
Visual mislocalization produced by a rapid image displacement on the retina: examination by means of dichoptic presentation of a target and its background scene 35: 3021
Colour induced stereopsis in images with achromatic information and only one other colour 35: 3161
Binocular alignment and vergence in early infancy 35: 3229
Theoretical explanations of Listing's law and their implication for binocular vision 35: 3237
Plasticity of human motion processing mechanisms following surgery for infantile esotropia 35: 3279
Initial directions and landing positions of binocular saccades 35: 3297
Voluntary binocular gaze-shifts in the plane of regard: dynamics of version and vergence 35: 3335
Providing distinct vergence and version dynamics in a bilateral oculomotor network 35: 3359

BIPOLAR CELLS
Correlation of dynamic responses in the ON bipolar neuron and the *b*-wave of the electroretinogram 35: 1359

BLEACHING (*see also* ADAPTATION, DARK)
Adaptation mechanisms in spatial vision--I. Bleaches and backgrounds 35: 1585

BLINKING
Spectral characteristics of blink suppression in normal observers 35: 2569

BRIGHTNESS PERCEPTION
Spatiotemporal visual response to suprathreshold stimuli 35: 227
Contrast and assimilation on different depth planes 35: 881
Assimilation: asymmetry between brightness and darkness? 35: 1413
A quantitative model for simultaneous brightness induction 35: 2007
A contrast- and luminance-driven multiscale network model of brightness perception 35: 2201
The critical role of relative luminance relations in White's effect and grating induction 35: 2603

BROCA-SULZER EFFECT (*see* BRIGHTNESS PERCEPTION)

CELLS (*see* CORTEX; GANGLION CELLS; HORIZONTAL CELLS)

CHANNELS
Adaptation mechanisms in spatial vision--I. Bleaches and backgrounds 35: 1585
Adaptation mechanisms in spatial vision--II. Flash thresholds and background adaptation 35: 1595
Binocular combination of contrast signals from orthogonal orientation channels 35: 2559
Spatial frequency channels in experimentally strabismic monkeys revealed by oblique masking 35: 2737

CHROMATIC ABERRATION (*see* ABERRATION)

CHROMATIC CONTRAST (*see* COLOR CONTRAST)

CHROMATIC INDUCTION (*see* COLOR CONTRAST)

CLINICAL APPLICATIONS
Object perception by visually impaired people at different light levels 35: 161
Light scattering in donor lenses 35: 169
The effects of spatial filtering and contrast reduction on visual search times in good and poor readers 35: 285
High-pass resolution perimetry: central-field neuroretinal correlates 35: 293
Interobserver agreement for measurement of grating acuity and interocular acuity differences with the Teller acuity card procedure 35: 303
Evidence for two sites of adaptation affecting the dark-adapted ERG of cats and primates 35: 435
Relationship between visual sensitivity and target localization in older adults 35: 579
Motion perception deficits from midline cerebellar lesions in human 35: 723
Accommodation in humans with juvenile macular degeneration 35: 873
A reflectometric technique for assessing photoreceptor alignment 35: 999
Migraine phosphenes and the retino-cortical magnification factor 35: 1125
Contrast sensitivity and coherent motion detection measured at photopic luminance levels in dyslexics and controls 35: 1483
Enhanced S cone syndrome: evidence for an abnormally large number of S cones 35: 1483
Visual acuity vs letter contrast sensitivity in retinitis pigmentosa 35: 1495
Symmetry discrimination in patients with retinitis pigmentosa 35: 1633
The focal cone electroretinogram 35: 1641
Contour interaction in the presence of congenital nystagmus 35: 1785
Peripheral cone contrast sensitivity in glaucoma 35: 1791
Psychophysics of reading--XIII. Predictors of magnifier-aided reading speed in low vision 35: 1931

Printed cards for measuring low-vision reading speed 35: 1939
A comparison of temporal integration in children with a specific reading disability and normal readers 35: 2067
Formoguanamine-induced inhibition of deprivation myopia in chick is accompanied by choroidal thinning while retinal function is retained 35: 2075
The inverted face inversion effect in prosopagnosia: evidence for mandatory, face-specific perceptual mechanisms 35: 2089
Motion perception deficits in glaucomatous optic neuropathy 35: 2225
A pupillometric correlate of scotopic visual acuity 35: 2235
The effects of afferent stimulation on congenital nystagmus foveation periods 35: 2371
The electroretinographic diagnosis of the incomplete form of congenital stationary night blindness 35: 2383
Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
Effect of repeat use and coating defects of gold foil electrodes on electroretinogram recording 35: 2795
Effect of retinal image motion on visual acuity and contour interaction in congenital nystagmus 35: 3071

COGNITION
Perceptual learning in vernier acuity: what is learned? 35: 519
The non-visual impact of eye orientation on eye-hand coordination 35: 1611
Perceptual learning in visual search: fast, enduring, but non-specific 35: 2037
Fast perceptual learning in hyperacuity 35: 3003
The function of visual search and memory in sequential looking tasks 35: 3401

COLOR ANOMALY
Polymorphism in the number of genes encoding long-wavelength-sensitive cone pigments among males with normal color vision 35: 2395
Variation in color matching and discrimination among deuteranomalous trichromats: theoretical implications of small differences in photopigments 35: 2579

COLOR APPEARANCE
Local and global factors in spatially-contingent coloured aftereffects 35: 207
Photoreceptor sensitivity changes explain color appearance shifts induced by large uniform backgrounds in dichoptic matching 35: 239
Spatio-temporal model for subjective colours based on colour coded ganglion cells 35: 275
A closer look at the dependence of neon colour spreading on wavelength and illuminance 35: 375
Network simulations of retinal and cortical contributions to color constancy 35: 413
Color appearance with sparse chromatic context 35: 797
Simultaneous colour constancy revisited: an analysis of viewing strategies 35: 2431
The prediction of hue and saturation for non-spectral lights 35: 2967

COLOR BLINDNESS (*see* DICHROMACY)

COLOR CODING
Spatio-temporal model for subjective colours based on colour coded ganglion cells 35: 275
Proximity judgments in color space: tests of a Euclidean color geometry 35: 827
The prediction of hue and saturation for non-spectral lights 35: 2967

COLOR CONTRAST
Saccades to large coloured targets stepping in open fields 35: 263
Color appearance with sparse chromatic context 35: 797
Human processing of colour information in the chromatic-frequency domain 35: 867
Temporal and chromatic properties of motion mechanisms 35: 1547

Measurements of geometric illusions, illusory contours and stereo-depth at luminance and colour contrast 35: 1713
Peripheral cone contrast sensitivity in glaucoma 35: 1791
Infant eye movement asymmetries: temporal-nasal asymmetry is reversed at isoluminance in 2-month-olds 35: 1889
Luminance discrimination, color contrast, and multiple mechanisms 35: 2147
Cortical simple cells can extract achromatic information from the multiplexed chromatic and achromatic signals in the parvocellular pathway 35: 2359
Accommodation responds to changing contrast of long, middle and short spectral-waveband components of the retinal image 35: 2415
Infant luminance and chromatic contrast sensitivity: optokinetic nystagmus data on 3-month-olds 35: 3145

COLOR DISCRIMINATION
A closer look at the dependence of neon colour spreading on wavelength and illuminance 35: 375
Detection of blue under chromatic adaptation: the effects of stimulus size and eccentricity 35: 589
Rayleigh matches and unique green 35: 613
Proximity judgments in color space: tests of a Euclidean color geometry 35: 827
Human processing of colour information in the chromatic-frequency domain 35: 867
Spectral efficiency measured by heterochromatic flicker photometry is similar in human infants and adults 35: 1385
The contribution of color to depth perceived from motion parallax 35: 1871
Polymorphism in the number of genes encoding long-wavelength-sensitive cone pigments among males with normal color vision 35: 2395
Variation in color matching and discrimination among deuteranomalous trichromats: theoretical implications of small differences in photopigments 35: 2579
Reversals of the colour-depth illusion explained by ocular chromatic aberration 35: 2675
Photoreceptor spectral sensitivities: common shape in the long-wavelength region 35: 3083
Human cones appear to adapt at low light levels: measurements on the red-green detection mechanism 35: 3103
Infant luminance and chromatic contrast sensitivity: optokinetic nystagmus data on 3-month-olds 35: 3145

COLOR MATCHING
Local and global factors in spatially-contingent coloured aftereffects 35: 207
Photoreceptor sensitivity changes explain color appearance shifts induced by large uniform backgrounds in dichoptic matching 35: 239
Rayleigh matches and unique green 35: 613
Orientation and color processing for partially occluded objects 35: 647
Variation in color matching and discrimination among deuteranomalous trichromats: theoretical implications of small differences in photopigments 35: 2579

COLOR OPPONENCY
A closer look at the dependence of neon colour spreading on wavelength and illuminance 35: 375
Network simulations of retinal and cortical contributions to color constancy 35: 413
Field additivity of the middle-wavelength cone pathway under various test and field configurations 35: 601
Nature of the pupillary responses evoked by chromatic flashes on a white background 35: 897
The prediction of hue and saturation for non-spectral lights 35: 2967

COLOR SELECTIVITY
Human cones appear to adapt at low light levels: measurements on the red-green detection mechanism 35: 3103

CONES
Computational studies on the interaction between red cone and H1 horizontal cell 35: 149
Photoreceptor sensitivity changes explain color appearance shifts induced by large uniform backgrounds in dichoptic matching 35: 239
High-pass resolution perimetry: central-field neuroretinal correlates 35: 293
Field additivity of the middle-wavelength cone pathway under various test and field configurations 35: 601
Enhanced S cone syndrome: evidence for an abnormally large number of S cones 35: 1473
Temporal and chromatic properties of motion mechanisms 35: 1547
The focal cone electroretinogram 35: 1641
Peripheral cone contrast sensitivity in glaucoma 35: 1791
Genetic basis of photopigment variations in human dichromats 35: 2095
The electroretinographic diagnosis of the incomplete form of congenital stationary night blindness 35: 2383
Polymorphism in the number of genes encoding long-wavelength-sensitive cone pigments among males with normal color vision 35: 2395
Variation in color matching and discrimination among deuteranomalous trichromats: theoretical implications of small differences in photopigments 35: 2579
Phototransduction in human cones measured using the *a*-wave of the ERG 35: 2801
Human cones appear to adapt at low light levels: measurements on the red-green detection mechanism 35: 3103

CONTOUR PERCEPTION
Subthreshold summation with illusory contours 35: 1071
Contour integration across depth 35: 1699
Contour interaction in the presence of congenital nystagmus 35: 1785
Mechanisms of purely subjective contour tilt aftereffects 35: 2547
Depth release of illusory contour shape in the Ehrenstein grid 35: 2845
Shape from shaded random surfaces 35: 2985
Effect of retinal image motion on visual acuity and contour interaction in congenital nystagmus 35: 3071

CONTRAST DISCRIMINATION
Assimilation: asymmetry between brightness and darkness? 35: 1413
Modeling pedestal experiments with amplitude instead of contrast 35: 1979
Luminance discrimination, color contrast, and multiple mechanisms 35: 2147
Isolation and interaction of ON and OFF pathways in human vision: pattern-polarity effects on contrast discrimination 35: 2479
Binocular combination of contrast signals from orthogonal orientation channels 35: 2559
Discrimination of compound gratings: spatial-frequency channels or local features? 35: 2685

CONTRAST FLASH (*see* MASKING)

CONTRAST PERCEPTION
What's constant in contrast constancy? The effects of scaling on the perceived contrast of bandpass patterns 35: 739
Subthreshold summation with illusory contours 35: 1071
Perceived motion of contrast-modulated gratings: predictions of the Multi-channel Gradient Model and the role of full-wave rectification 35: 1771
Contour interaction in the presence of congenital nystagmus 35: 1785

CONTRAST SENSITIVITY
Receptive fields of P and M ganglion cells across the primate retina 35: 7
The contributions of ON- and OFF-pathways to contrast sensitivity and spatial resolution in goldfish 35: 103
Object perception by visually impaired people at different light levels 35: 161
Contrast dependence of motion-onset and pattern-reversal evoked potentials 35: 197
The effects of spatial filtering and contrast reduction on visual search times in good and poor readers 35: 285
Relationship between visual sensitivity and target localization in older adults 35: 579
Feature-specific effects of selective visual attention 35: 621
What's constant in contrast constancy? The effects of scaling on the perceived contrast of bandpass patterns 35: 739
Neural modulation transfer function of the human visual system at various eccentricities 35: 767
Individual differences in contrast sensitivity functions: longitudinal study of 4-, 6-, and 8-month-old human infants 35: 961
Isolation and characteristics of a steady-state visually-evoked potential in humans related to the motion of a stimulus 35: 1365
Assimilation: asymmetry between brightness and darkness? 35: 1413
Contrast sensitivity and coherent motion detection measured at photopic luminance levels in dyslexics and controls 35: 1483
Visual acuity vs letter contrast sensitivity in retinitis pigmentosa 35: 1495
Contrast sensitivity and spatial frequency response of primate cortical neurons in and around the cytochrome oxidase blobs 35: 1501
A covariance structure analysis of flicker sensitivity 35: 1575
Zero frequency masking and a model of contrast sensitivity 35: 1965
Influence of contrast on the recognition of defocused letters: a geometrical model 35: 2127
Modelling the increase of contrast sensitivity with grating area and exposure time 35: 2339
Infant luminance and chromatic contrast sensitivity: optokinetic nystagmus data on 3-month-olds 35: 3145

CORTEX
Interocular transfer of receptive field expansion in cat visual cortex 35: 1
Cholinergic modulation of synaptic transmission in the rat visual cortex *in vitro* 35: 25
Interocular suppression in the primary visual cortex: a possible neural basis of binocular rivalry 35: 179
Stereopsis and binocularity in the squirrel monkey 35: 345
Network simulations of retinal and cortical contributions to color constancy 35: 413
What's constant in contrast constancy? The effects of scaling on the perceived contrast of bandpass patterns 35: 739
Migraine phosphenes and the retino-cortical magnification factor 35: 1125
Contrast sensitivity and spatial frequency response of primate cortical neurons in and around the cytochrome oxidase blobs 35: 1501
Modulation of motion aftereffect by surround motion and its dependence on stimulus size and eccentricity 35: 1835
Cortical simple cells can extract achromatic information from the multiplexed chromatic and achromatic signals in the parvocellular pathway 35: 2359
Bayesian analysis of identification performance in monkey visual cortex: nonlinear mechanisms and stimulus certainty 35: 2723
The nature of the inputs to cortical motion detectors 35: 2785

CORTICAL MAGNIFICATION
Migraine phosphenes and the retino-cortical magnification factor 35: 1125
A four-surface schematic eye of macaque monkey obtained by an optical method 35: 2245

CRAIK-O'BRIEN EFFECT (*see* CONTOUR PERCEPTION)

DEPTH PERCEPTION
Recovering three-dimensional structure from motion with surface reconstruction 35: 117
Structure-from-motion: perceptual evidence for surface interpolation 35: 139
Stereopsis due to luminance differences in the two eyes 35: 255
Orientation discrimination in cyclopean vision 35: 365
Measurement and modeling of depth cue combination: in defense of weak fusion 35: 389
Restricted ability to recover three-dimensional global motion from one-dimensional motion signals: psychophysical observations 35: 463
Object classification for human and ideal observers 35: 549
Restricted ability to recover three-dimensional global motion from one-dimensional local signals: theoretical observations 35: 569
Depth discrimination of a crowded line is better when it is more luminant than the lines crowding it 35: 657
Stereopsis, vertical disparity and relief transformations 35: 703
Speed discrimination of motion-in-depth using binocular cues 35: 885
The hierarchical nature of perceiving direction of motion in depth from optic flow 35: 1435
Interaction of stereo and texture cues in the perception of three-dimensional steps 35: 1463
Contour integration across depth 35: 1699
The contribution of color to depth perceived from motion parallax 35: 1871
Natural problems for stereoscopic depth perception in virtual environments 35: 2731
Depth release of illusory contour shape in the Ehrenstein grid 35: 2845
Speed gradients and the perception of surface slant: analysis is two-dimensional not one-dimensional 35: 2879
Shape from shaded random surfaces 35: 2985
Colour induced stereopsis in images with achromatic information and only one other colour 35: 3161

DETECTION THRESHOLD
Detecting a trajectory embedded in random-direction motion noise 35: 65
Contrast detection facilitation by spatially separated targets and inducers 35: 1019
Subthreshold summation with illusory contours 35: 1071
Contrast sensitivity and coherent motion detection measured at photopic luminance levels in dyslexics and controls 35: 1483
Adaptation mechanisms in spatial vision--I. Bleaches and backgrounds 35: 1585
Adaptation mechanisms in spatial vision--II. Flash thresholds and background adaptation 35: 1595

DEUTERANOPIA (*see* DICHROMACY)

DEVELOPMENT
Characteristics of horizontal smooth pursuit eye movements to sinusoidal stimulation in children of primary school age 35: 539
Does saccadic undershoot minimize saccadic flight-time? A Monte-Carlo study 35: 691
Individual differences in contrast sensitivity functions: longitudinal study of 4-, 6-, and 8-month-old human infants 35: 961
The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks 35: 1141
Photoperiod, early post-natal eye growth, and visual deprivation 35: 1195
Constant light produces severe corneal flattening and hyperopia in chickens 35: 1203

Differences in eye growth and the response to visual deprivation in different strains of chicken 35: 1211
The relationship of choroidal blood flow and accommodation to the control of ocular growth 35: 1227
Reduction of infant myopia: a longitudinal cycloplegic study 35: 1313
The course of myopia in children with mild retinopathy of prematurity 35: 1329
Enhanced S cone syndrome: evidence for an abnormally large number of S cones 35: 1473
The absence of a photopic influence on the refractive development of the embryonic eye of the clearnose skate *(Raja eglanteria)* 35: 1675
Visual processing of looming and time to contact throughout the visual field 35: 1845
Assessment of vernier acuity development using the "equivalent intrinsic blur" paradigm 35: 1879
Infant eye movement asymmetries: temporal-nasal asymmetry is reversed at isoluminance in 2-month-olds 35: 1889
Orientation, density and size as cues to texture segmentation in kittens 35: 2463
Infant luminance and chromatic contrast sensitivity: optokinetic nystagmus data on 3-month-olds 35: 3145
Saccadic eye movement conjugation in children 35: 3217
Binocular alignment and vergence in early infancy 35: 3229
Plasticity of human motion processing mechanisms following surgery for infantile esotropia 35: 3279

DICHROMACY
Horizontal cells function normally in ethambutol-treated goldfish 35: 1667
Genetic basis of photopigment variations in human dichromats 35: 2095
Phototransduction in human cones measured using the *a*-wave of the ERG 35: 2801

DIPLOPIA (*see* BINOCULAR VISION)

DIRECTIONAL SENSITIVITY (MOTION) (*see* MOTION PERCEPTION (DIRECTIONAL SENSITIVITY))

DISPARITY (*see* BINOCULAR VISION; STEREOPSIS)

ECCENTRICITY (*see* PERIPHERAL VISION)

ELECTRORETINOGRAM
Evidence for two sites of adaptation affecting the dark-adapted ERG of cats and primates 35: 435
Correlation of dynamic responses in the ON bipolar neuron and the *b*-wave of the electroretinogram 35: 1359
Enhanced S cone syndrome: evidence for an abnormally large number of S cones 35: 1483
The focal cone electroretinogram 35: 1641
Formoguanamine-induced inhibition of deprivation myopia in chick is accompanied by choroidal thinning while retinal function is retained 35: 2075
Genetic basis of photopigment variations in human dichromats 35: 2095
The electroretinographic diagnosis of the incomplete form of congenital stationary night blindness 35: 2383
Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
Effect of repeat use and coating defects of gold foil electrodes on electroretinogram recording 35: 2795
Phototransduction in human cones measured using the *a*-wave of the ERG 35: 2801
Effects of flicker adaptation and temporal gain control on the flicker ERG 35: 2943

EVOKED POTENTIALS
Contrast dependence of motion-onset and pattern-reversal evoked potentials 35: 197
Isolation and characteristics of a steady-state visually-evoked potential in humans related to the motion of a stimulus 35: 1365
Spectral efficiency measured by heterochromatic flicker photometry is similar in human infants and adults 35: 1385
Plasticity of human motion processing mechanisms following surgery for infantile esotropia 35: 3279

EYE-MOVEMENTS
An alternative three-dimensional interpretation of Hering's equal-innervation law for version and vergence eye movements 35: 93
Local and global factors in spatially-contingent coloured aftereffects 35: 207
Reduced extracellular matrix in mammalian sclera with induced myopia 35: 1271
Saccadic eye movements while reading music 35: 1447
"Express" smooth pursuit 35: 1459
Mathematics of three-dimensional eye rotations 35: 1727
Infant eye movement asymmetries: temporal-nasal asymmetry is reversed at isoluminance in 2-month-olds 35: 1889
The role of attention in the programming of saccades 35: 1897
The use of egocentric and exocentric location cues in saccadic programming 35: 2191
The role of exocentric reference frames in the perception of visual direction 35: 2267
Simultaneous colour constancy revisited: an analysis of viewing strategies 35: 2431
An illusion of relative motion dependent upon spatial frequency and orientation 35: 3093
Theoretical explanations of Listing's law and their implication for binocular vision 35: 3237
Rotation of Listing's plane by horizontal, vertical and oblique prism-induced vergence 35: 3243
Initiation of disjunctive smsooth pursuit in monkeys: evidence that Hering's law of equal innervation is not obeyed by the smooth pursuit system 35: 3389
An adaptable association between vertical and horizontal vergence 35: 3519

EYE-MOVEMENTS, OPTOKINETIC NYSTAGMUS
Are retinal or mesencephalic dopaminergic systems involved in monocular optokinetic nystagmus asymmetry in frog? 35: 381
Effects of stationary and moving textured backgrounds on the visuo-oculo-manual tracking in humans 35: 837
Visual fixation of a target and suppression of optokinetic nystagmus: effects of varying target feedback 35: 1079
Infant eye movement asymmetries: temporal-nasal asymmetry is reversed at isoluminance in 2-month-olds 35: 1889
Different effects of dopamine and Piribedil (a dopamine D_2 agonist) on frog monocular optokinetic nystagmus asymmetry 35: 2665
Optokinetic nystagmus (OKN) suppression by fixation of a stabilized target: the effect of OKN-stimulus predictability 35: 2903
Infant luminance and chromatic contrast sensitivity: optokinetic nystagmus data on 3-month-olds 35: 3145

EYE-MOVEMENTS, SACCADIC
Ocular motor abnormalities in achiasmatic mutant Belgian sheepdogs: unyoked eye movements in a mammal 35: 109
Saccades to large coloured targets stepping in open fields 35: 263
Fourth Purkinje image signals reveal eye-lens deviations and retinal image distortions during saccades 35: 529
Anticipatory saccades in smooth pursuit: task effects and pursuit vector after saccades 35: 667

Does saccadic undershoot minimize saccadic flight-time? A Monte-Carlo study 35: 691
Gap duration and location of attention focus modulate the occurrence of left/right asymmetries in the saccadic reaction times of human subjects 35: 987
Saccadic eye movements while reading music 35: 1447
The accuracy and precision of saccades to small and large targets 35: 1741
The role of attention in the programming of saccades 35: 1897
The use of egocentric and exocentric location cues in saccadic programming 35: 2191
Illusory localization of stimuli flashed in the dark before saccades 35: 2347
Spectral characteristics of blink suppression in normal observers 35: 2569
Intertrial effects of randomization on saccadic reaction times in human observers 35: 2615
Perceptual consequences of ocular lens overshoot during saccadic eye movements 35: 2897
Saccadic reaction times in gap/overlap paradigms: a model based on integration of intentional and visual information on neural, dynamic fields 35: 2911
Visual mislocalization produced by a rapid image displacement on the retina: examination by means of dichoptic presentation of a target and its background scene 35: 3021
Tracking of illusory target motion: differences between gaze and head responses 35: 3029
Control of vertical eye alignment in three-dimensional space 35: 3169
Are laws that govern behavior embedded in the structure of the CNS? The case of Hering's law 35: 3207
Saccadic eye movement conjugation in children 35: 3217
Regulation of static and dynamic ocular alignment in patients with trochlear nerve pareses 35: 3255
Initial directions and landing positions of binocular saccades 35: 3297
Saccade latency toward auditory targets depends on the relative position of the sound source with respect to the eyes 35: 3305
A field theory of saccade generation: temporal-to-spatial transform in the superior colliculus 35: 3313
Transient torsion during and after saccades 35: 3321
Voluntary binocular gaze-shifts in the plane of regard: dynamics of version and vergence 35: 3335
Gap-overlap effects on latencies of saccades, vergence and combined vergence-saccades in humans 35: 3373
The function of visual search and memory in sequential looking tasks 35: 3401
Analysis of saccadic short-term plasticity in three dimensions 35: 3423
Binocular interactions in rapid saccadic adaptation 35: 3439
Rapid gain adaptation affects the dynamics of saccadic eye movements in humans 35: 3451
Unequal amplitude saccades produced by aniseikonic patterns: effects of viewing distance 35: 3459
Unequal saccades produced by aniseikonic patterns: a model approach 35: 3473
Position dependency of rapidly induced saccade disconjugacy 35: 3493
Immediate saccade amplitude disconjugacy induced by unequal images 35: 3505
Separate adaptive mechanisms for the control of reactive and volitional saccadic eye movements 35: 3529

EYE-MOVEMENTS, SMOOTH PURSUIT
Characteristics of horizontal smooth pursuit eye movements to sinusoidal stimulation in children of primary school age 35: 539
Anticipatory saccades in smooth pursuit: task effects and pursuit vector after saccades 35: 667
Effects of stationary and moving textured backgrounds on the visuo-oculo-manual tracking in humans 35: 837
"Express" smooth pursuit 35: 1459
Tracking of illusory target motion: differences between gaze and head responses 35: 3029

Initiation of disjunctive smsooth pursuit in monkeys: evidence that Hering's law of equal innervation is not obeyed by the smooth pursuit system 35: 3389

EYE-MOVEMENTS, TORSIONAL
Dynamic properties of the human vestibulo-ocular reflex during head rotations in roll 35: 679
The human ocular torsion position response during yaw angular acceleration 35: 2045
Excess cyclovergence in patients with intermittent exotropia 35: 3265
Transient torsion during and after saccades 35: 3321
Analysis of saccadic short-term plasticity in three dimensions 35: 3423

EYE-MOVEMENTS, VERGENCE
An alternative three-dimensional interpretation of Hering's equal-innervation law for version and vergence eye movements 35: 93
Accommodation in humans with juvenile macular degeneration 35: 873
Behavioral studies of local stereopsis and disparity vergence in monkeys 35: 1755
Natural problems for stereoscopic depth perception in virtual environments 35: 2731
Absence of adaptive plasticity after voluntary vergence and accommodation 35: 2773
Control of vertical eye alignment in three-dimensional space 35: 3169
Binocular alignment and vergence in early infancy 35: 3229
Rotation of Listing's plane by horizontal, vertical and oblique prism-induced vergence 35: 3243
Voluntary binocular gaze-shifts in the plane of regard: dynamics of version and vergence 35: 3335
Providing distinct vergence and version dynamics in a bilateral oculomotor network 35: 3359
Gap-overlap effects on latencies of saccades, vergence and combined vergence-saccades in humans 35: 3373
Initiation of disjunctive smsooth pursuit in monkeys: evidence that Hering's law of equal innervation is not obeyed by the smooth pursuit system 35: 3389
Binocular interactions in rapid saccadic adaptation 35: 3439
Unequal amplitude saccades produced by aniseikonic patterns: effects of viewing distance 35: 3459
Immediate saccade amplitude disconjugacy induced by unequal images 35: 3505
An adaptable association between vertical and horizontal vergence 35: 3519

EYE-MOVEMENTS, VESTIBULO-OCULAR
Dynamic properties of the human vestibulo-ocular reflex during head rotations in roll 35: 679
Mathematics of three-dimensional eye rotations 35: 1727

FEATURE DETECTION
Visual processing of motion boundaries 35: 807
A contrast- and luminance-driven multiscale network model of brightness perception 35: 2201
Sharpening of drifting, blurred images 35: 2539
Discrimination of compound gratings: spatial-frequency channels or local features? 35: 2685
The functional architecture of human visual motion perception 35: 2697
The effect of nearby luminance contrast polarity on color boundary localization 35: 2767
Depth release of illusory contour shape in the Ehrenstein grid 35: 2845
Discrimination of orientation-defined texture edges 35: 2863
Human efficiency for recognizing and detecting low-pass filtered objects 35: 2955

FISH VISION
The contributions of ON- and OFF-pathways to contrast sensitivity and spatial resolution in goldfish 35: 103
Horizontal cells function normally in ethambutol-treated goldfish 35: 1667
Patterns of rod proliferation in deep-sea fish retinae 35: 1799
Differential effects of dopamine depletion on the distribution of [^{3}H]SCH 23390 and [^{3}H]spiperone binding sites in the goldfish retina 35: 2409

FIXATION
Gap duration and location of attention focus modulate the occurrence of left/right asymmetries in the saccadic reaction times of human subjects 35: 987
Intertrial effects of randomization on saccadic reaction times in human observers 35: 2615
Optokinetic nystagmus (OKN) suppression by fixation of a stabilized target: the effect of OKN-stimulus predictability 35: 2903
Saccadic reaction times in gap/overlap paradigms: a model based on integration of intentional and visual information on neural, dynamic fields 35: 2911
Gap-overlap effects on latencies of saccades, vergence and combined vergence-saccades in humans 35: 3373

FLICKER
Motion aftereffect with flickering test patterns reveals higher stages of motion processing 35: 477
The processing of temporal modulation at different levels of retinal illuminance 35: 775
Spectral efficiency measured by heterochromatic flicker photometry is similar in human infants and adults 35: 1385
A covariance structure analysis of flicker sensitivity 35: 1575
Motion aftereffect with flickering test stimuli depends on adapting velocity 35: 1825
The effect of flicker on foveal and peripheral thresholds for oscillatory motion 35: 2179
Effects of flicker adaptation and temporal gain control on the flicker ERG 35: 2943
The spatiotemporal range of inhibitory interaction in flicker detection 35: 3015
Testing a computational model of light-adaptation dynamics 35: 3037

FORM PERCEPTION
Object perception by visually impaired people at different light levels 35: 161
Perception of three-dimensional shape from ego- and object-motion: comparison between small- and large-field stimuli 35: 453
Spatial displacement, but not temporal asynchrony, destroys figural binding 35: 491
Object classification for human and ideal observers 35: 549
Stereopsis, vertical disparity and relief transformations 35: 703
Object representation by cores: identifying and representing primitive spatial regions 35: 1917
The inverted face inversion effect in prosopagnosia: evidence for mandatory, face-specific perceptual mechanisms 35: 2089
Human efficiency for recognizing and detecting low-pass filtered objects 35: 2955
Shape from shaded random surfaces 35: 2985
Human efficiency for recognizing 3-D objects in luminance noise 35: 3053

FOVEA
A reflectometric technique for assessing photoreceptor alignment 35: 999
Visual acuity vs letter contrast sensitivity in retinitis pigmentosa 35: 1495
Symmetry discrimination in patients with retinitis pigmentosa 35: 1633
The effects of afferent stimulation on congenital nystagmus foveation periods 35: 2371

GAIN CONTROL
Interocular suppression in the primary visual cortex: a possible neural basis of binocular rivalry 35: 179
Photoreceptor sensitivity changes explain color appearance shifts induced by large uniform backgrounds in dichoptic matching 35: 239
Bayesian analysis of identification performance in monkey visual cortex: nonlinear mechanisms and stimulus certainty 35: 2723
Effects of flicker adaptation and temporal gain control on the flicker ERG 35: 2943
Rapid gain adaptation affects the dynamics of saccadic eye movements in humans 35: 3451

GANGLION CELLS
Receptive fields of P and M ganglion cells across the primate retina 35: 7
The contributions of ON- and OFF-pathways to contrast sensitivity and spatial resolution in goldfish 35: 103
Spatio-temporal model for subjective colours based on colour coded ganglion cells 35: 275
High-pass resolution perimetry: central-field neuroretinal correlates 35: 293
Horizontal cells function normally in ethambutol-treated goldfish 35: 1667
Motion perception deficits in glaucomatous optic neuropathy 35: 2225
Changes in retinal time scale under background light: observations on rods and ganglion cells in the frog retina 35: 2255
Isolation and interaction of ON and OFF pathways in human vision: pattern-polarity effects on contrast discrimination 35: 2479
The spatial precision of macaque ganglion cell responses in relation to vernier acuity of human observers 35: 2743

GROUPING
Spatial displacement, but not temporal asynchrony, destroys figural binding 35: 491
Perceptual grouping by similarity and proximity: experimental results can be predicted by intensity autocorrelations 35: 853
Object representation by cores: identifying and representing primitive spatial regions 35: 1917
Disambiguating velocity estimates across image space 35: 2889

HISTOCHEMISTRY (*see* NEUROCHEMISTRY)

HORIZONTAL CELLS
Computational studies on the interaction between red cone and H1 horizontal cell 35: 149
Horizontal cells function normally in ethambutol-treated goldfish 35: 1667

HYPERACUITY
The detection and discrimination of spatial offsets 35: 51
Spatial attention and vernier acuity 35: 337
Perceptual learning in vernier acuity: what is learned? 35: 519
Context effects on perceived position: sustained and transient temporal influences on spatial interactions 35: 635
Perception of oppositely moving verniers and spatio-temporal interpolation 35: 925
On the accuracy of surface reconstruction from disparity interpolation 35: 949
A reflectometric technique for assessing photoreceptor alignment 35: 999
Perceptual learning in parafoveal vision 35: 1679
Assessment of vernier acuity development using the "equivalent intrinsic blur" paradigm 35: 1879
Vernier acuity during image rotation and translation: visual performance limits 35: 1951
The effects of spatiotemporal integration on maximum displacement thresholds for the detection of coherent motion 35: 2287

Orientation anisotropy in vernier acuity 35: 2449
The spatial precision of macaque ganglion cell responses in relation to vernier acuity of human observers 35: 2743
Perceptual consequences of ocular lens overshoot during saccadic eye movements 35: 2897
Fast perceptual learning in hyperacuity 35: 3003
Regulation of static and dynamic ocular alignment in patients with trochlear nerve pareses 35: 3255

ILLUSION (*see also* AFTEREFFECTS)
A closer look at the dependence of neon colour spreading on wavelength and illuminance 35: 375
Induced motion may account for the illusory transformation of optic flow fields found by Duffy and Wurtz 35: 981
A unified account of three apparent motion illusions 35: 1109
An illusory transformation in a model of optic flow processing 35: 1619
Measurements of geometric illusions, illusory contours and stereo-depth at luminance and colour contrast 35: 1713
Illusory localization of stimuli flashed in the dark before saccades 35: 2347
Mechanisms of purely subjective contour tilt aftereffects 35: 2547
The critical role of relative luminance relations in White's effect and grating induction 35: 2603
Reversals of the colour-depth illusion explained by ocular chromatic aberration 35: 2675
Depth release of illusory contour shape in the Ehrenstein grid 35: 2845
Tracking of illusory target motion: differences between gaze and head responses 35: 3029
An illusion of relative motion dependent upon spatial frequency and orientation 35: 3093

ILLUSORY CONTOURS (*see* ILLUSION)

IMAGE QUALITY
Perception of oppositely moving verniers and spatio-temporal interpolation 35: 925
Inducing ametropias in hatchling chicks by defocus--aperture effects and cylindrical lenses 35: 1165
A dynamic relationship between myopia and blur-driven accommodation in school-aged children 35: 1299
Assessment of vernier acuity development using the "equivalent intrinsic blur" paradigm 35: 1879
Influence of contrast on the recognition of defocused letters: a geometrical model 35: 2127
A target in real motion appears blurred in the absence of other proximal moving targets 35: 2315
Accommodation responds to changing contrast of long, middle and short spectral-waveband components of the retinal image 35: 2415
Sharpening of drifting, blurred images 35: 2539

INCREMENT THRESHOLD
Field additivity of the middle-wavelength cone pathway under various test and field configurations 35: 601
Contrast detection facilitation by spatially separated targets and inducers 35: 1019

INSECT VISION
Functional diversity of neural organization in insect ocellar systems 35: 443

INTEROCULAR TRANSFER (*see* AFTEREFFECTS)

IRIS
Rayleigh matches and unique green 35: 613
The mechanism of lenticular accommodation in chicks 35: 1525

Contour interaction in the presence of congenital nystagmus 35: 1785
In vitro changes in back vertex distance of chick and pigeon lenses: species differences and the effects of aging 35: 1813

LATENCY (*see* REACTION TIME)

LATERAL GENICULATE NUCLEUS
Interocular suppression in the primary visual cortex: a possible neural basis of binocular rivalry 35: 179

LATERAL INHIBITION
On the time-course of inhibition in the stereoscopic perception of rows of dots 35: 1393

LENS
Light scattering in donor lenses 35: 169
Fourth Purkinje image signals reveal eye-lens deviations and retinal image distortions during saccades 35: 529
Refraction, aliasing, and the absence of motion reversals in peripheral vision 35: 939
The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks 35: 1141
Inducing ametropias in hatchling chicks by defocus--aperture effects and cylindrical lenses 35: 1165
Choroidal and scleral mechanisms of compensation for spectacle lenses in chicks 35: 1175
Constant light produces severe corneal flattening and hyperopia in chickens 35: 1203
Studies on the role of the retinal dopamine/melatonin system in experimental refractive errors in chickens 35: 1247
Does experimentally-induced amblyopia cause hyperopia in monkeys? 35: 1289
Reduction of infant myopia: a longitudinal cycloplegic study 35: 1313
Correlations between familial refractive error and children's non-cycloplegic refractions 35: 1353
The mechanism of lenticular accommodation in chicks 35: 1525
The equivalent refractive index of the crystalline lens in childhood 35: 1565
The absence of a photopic influence on the refractive development of the embryonic eye of the clearnose skate *(Raja eglanteria)* 35: 1675
In vitro changes in back vertex distance of chick and pigeon lenses: species differences and the effects of aging 35: 1813
Continuous gradient index and shell models of the human lens 35: 2529
Perceptual consequences of ocular lens overshoot during saccadic eye movements 35: 2897

LIGHT DAMAGE
Photoperiod, early post-natal eye growth, and visual deprivation 35: 1195Constant light produces severe corneal flattening and hyperopia in chickens 35: 1203

LOW VISION
Object perception by visually impaired people at different light levels 35: 161
Psychophysics of reading--XIII. Predictors of magnifier-aided reading speed in low vision 35: 1931
Printed cards for measuring low-vision reading speed 35: 1939

LUMINANCE
Stereopsis due to luminance differences in the two eyes 35: 255
Saccades to large coloured targets stepping in open fields 35: 263
Depth discrimination of a crowded line is better when it is more luminant than the lines crowding it 35: 657

Measurements of geometric illusions, illusory contours and stereo-depth at luminance and colour contrast 35: 1713
Zero frequency masking and a model of contrast sensitivity 35: 1965
Modeling pedestal experiments with amplitude instead of contrast 35: 1979
Luminance discrimination, color contrast, and multiple mechanisms 35: 2147
Effects of luminance contrast and phase difference on motion assimilation for sinusoidal gratings 35: 2277
Cortical simple cells can extract achromatic information from the multiplexed chromatic and achromatic signals in the parvocellular pathway 35: 2359
The critical role of relative luminance relations in White's effect and grating induction 35: 2603
The effect of nearby luminance contrast polarity on color boundary localization 35: 2767
Shape from shaded random surfaces 35: 2985
Human efficiency for recognizing 3-D objects in luminance noise 35: 3053
Infant luminance and chromatic contrast sensitivity: optokinetic nystagmus data on 3-month-olds 35: 3145

MACH BANDS (*see* CONTOUR PERCEPTION)

MASKING
Perceptual learning in vernier acuity: what is learned? 35: 519
The processing of temporal modulation at different levels of retinal illuminance 35: 775
Zero frequency masking and a model of contrast sensitivity 35: 1965
Modeling pedestal experiments with amplitude instead of contrast 35: 1979
A target in real motion appears blurred in the absence of other proximal moving targets 35: 2315
Orientation anisotropy in vernier acuity 35: 2449
Isolation and interaction of ON and OFF pathways in human vision: pattern-polarity effects on contrast discrimination 35: 2479
Spatial frequency channels in experimentally strabismic monkeys revealed by oblique masking 35: 2737
The spatiotemporal range of inhibitory interaction in flicker detection 35: 3015

MCCOLLOUGH EFFECT (*see* AFTEREFFECTS)

MEMORY (*see* COGNITION)

METACONTRAST (*see* MASKING)

MONOCHROMACY
Monochromatic aberrations and myopia 35: 1157

MONOCULAR VISION
Different effects of dopamine and Piribedil (a dopamine D_2 agonist) on frog monocular optokinetic nystagmus asymmetry 35: 2665
Fast perceptual learning in hyperacuity 35: 3003

MORPHOLOGY (*see* NEUROANATOMY)

MOTION PERCEPTION
1st- and 2nd-order motion and texture resolution in central and peripheral vision 35: 59
Detecting a trajectory embedded in random-direction motion noise 35: 65
Recovering three-dimensional structure from motion with surface reconstruction 35: 117
Structure-from-motion: perceptual evidence for surface interpolation 35: 139
Contrast dependence of motion-onset and pattern-reversal evoked potentials 35: 197
The optimal motion stimulus 35: 325

Perception of three-dimensional shape from ego- and object-motion: comparison between small- and large-field stimuli 35: 453
Restricted ability to recover three-dimensional global motion from one-dimensional motion signals: psychophysical observations 35: 463
Motion aftereffect with flickering test patterns reveals higher stages of motion processing 35: 477
A comparison of varieties of "second-order" motion 35: 507
Restricted ability to recover three-dimensional global motion from one-dimensional local signals: theoretical observations 35: 569
Motion perception deficits from midline cerebellar lesions in human 35: 723
The processing of temporal modulation at different levels of retinal illuminance 35: 775
Speed discrimination of motion-in-depth using binocular cues 35: 885
Spatiotemporal characterization of a Fourier and Non-Fourier Motion System 35: 907
Perception of oppositely moving verniers and spatio-temporal interpolation 35: 925
Refraction, aliasing, and the absence of motion reversals in peripheral vision 35: 939
Induced motion may account for the illusory transformation of optic flow fields found by Duffy and Wurtz 35: 981
Motion aftereffect after monocular adaptation to filled-in motion at the blind spot 35: 1041
Isolation and characteristics of a steady-state visually-evoked potential in humans related to the motion of a stimulus 35: 1365
Attentional modulation of adaptation to two-component transparent motion 35: 1401
The perceived speed of second-order motion and its dependence on stimulus contrast 35: 1421
Asymmetric spatial distributions of motion vectors yield characteristic errors in direction judgements 35: 1541
Temporal and chromatic properties of motion mechanisms 35: 1547
Perceived motion of contrast-modulated gratings: predictions of the Multi-channel Gradient Model and the role of full-wave rectification 35: 1771
Motion aftereffect with flickering test stimuli depends on adapting velocity 35: 1825
Visual processing of looming and time to contact throughout the visual field 35: 1845
The contribution of color to depth perceived from motion parallax 35: 1871
Vernier acuity during image rotation and translation: visual performance limits 35: 1951
Temporal filtering enhances direction discrimination in random-dot patterns 35: 2105
Motion detection in interleaved random dot patterns: evidence for a rectifying nonlinearity preceding motion analysis 35: 2117
Motion integration across differing image features 35: 2137
The effect of flicker on foveal and peripheral thresholds for oscillatory motion 35: 2179
Motion perception deficits in glaucomatous optic neuropathy 35: 2225
The effects of spatiotemporal integration on maximum displacement thresholds for the detection of coherent motion 35: 2287
Effects of a static textured background on motion integration 35: 2303
A target in real motion appears blurred in the absence of other proximal moving targets 35: 2315
Sharpening of drifting, blurred images 35: 2539
Global motion perception: no interaction between the first- and second-order motion pathways 35: 2589
The functional architecture of human visual motion perception 35: 2697
The nature of the inputs to cortical motion detectors 35: 2785
Disambiguating velocity estimates across image space 35: 2889
Two-dimensional constraints on three-dimensional structure from motion tasks 35: 2927
Fast perceptual learning in hyperacuity 35: 3003
Effect of retinal image motion on visual acuity and contour interaction in congenital nystagmus 35: 3071
An illusion of relative motion dependent upon spatial frequency and orientation 35: 3093

The influence of two spatially distinct primers and attribute priming on motion induction 35: 3119
Discrimination of speed distributions: sensitivity to statistical properties 35: 3131
Temporal coherence theory for the detection and measurement of visual motion 35: 3183
Plasticity of human motion processing mechanisms following surgery for infantile esotropia 35: 3279

MOTION PERCEPTION (APERTURE PROBLEM)
Motion integration across differing image features 35: 2137
Effects of a static textured background on motion integration 35: 2303
Disambiguating velocity estimates across image space 35: 2889

MOTION PERCEPTION (APPARENT MOTION)
A comparison of varieties of "second-order" motion 35: 507
A unified account of three apparent motion illusions 35: 1109
Apparent speed of sampled motion 35: 1375
Visual attention mechanisms show a center-surround organization 35: 1859
The effects of spatiotemporal integration on maximum displacement thresholds for the detection of coherent motion 35: 2287
Propagation of local motion correspondence 35: 2853

MOTION PERCEPTION (DIRECTIONAL SENSITIVITY)
The optimal motion stimulus 35: 325
Perception of oppositely moving verniers and spatio-temporal interpolation 35: 925
The hierarchical nature of perceiving direction of motion in depth from optic flow 35: 1435
The role of exocentric reference frames in the perception of visual direction 35: 2267
Effects of luminance contrast and phase difference on motion assimilation for sinusoidal gratings 35: 2277
The nature of the inputs to cortical motion detectors 35: 2785

MOTION PERCEPTION (OPTIC FLOW)
Perception of three-dimensional shape from ego- and object-motion: comparison between small- and large-field stimuli 35: 453
Visual processing of motion boundaries 35: 807
Induced motion may account for the illusory transformation of optic flow fields found by Duffy and Wurtz 35: 981
Mechanism of the illusory transformation of optic flow fields 35: 985
The hierarchical nature of perceiving direction of motion in depth from optic flow 35: 1435
An illusory transformation in a model of optic flow processing 35: 1619
Visual processing of looming and time to contact throughout the visual field 35: 1845
Speed gradients and the perception of surface slant: analysis is two-dimensional not one-dimensional 35: 2879

MOTION PERCEPTION (SPEED SENSITIVITY)
Temporal thresholds and reaction time to changes in velocity of visual motion 35: 355
Visual processing of motion boundaries 35: 807
Speed discrimination of motion-in-depth using binocular cues 35: 885
Apparent speed of sampled motion 35: 1375
The perceived speed of second-order motion and its dependence on stimulus contrast 35: 1421
Evidence for two speed signals: a coarse local signal for segregation and a precise global signal for discrimination 35: 1691
Motion aftereffect with flickering test stimuli depends on adapting velocity 35: 1825
Motion integration across differing image features 35: 2137

Combining speed information across space 35: 2811
Speed gradients and the perception of surface slant: analysis is two-dimensional not one-dimensional 35: 2879
Discrimination of speed distributions: sensitivity to statistical properties 35: 3131

MYOPIA
Moving the retina: choroidal modulation of refractive state 35: 37
Guest editorial 35: 1135
The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks 35: 1141
Raptors lack lower-field myopia 35: 1153
Monochromatic aberrations and myopia 35: 1157
Inducing ametropias in hatchling chicks by defocus--aperture effects and cylindrical lenses 35: 1165
Choroidal and scleral mechanisms of compensation for spectacle lenses in chicks 35: 1175
Photoperiod, early post-natal eye growth, and visual deprivation 35: 1195
Constant light produces severe corneal flattening and hyperopia in chickens 35: 1203
Differences in eye growth and the response to visual deprivation in different strains of chicken 35: 1211
A role for photoreceptor outer segments in the induction of deprivation myopia 35: 1217
The relationship of choroidal blood flow and accommodation to the control of ocular growth 35: 1227
Studies on the role of the retinal dopamine/melatonin system in experimental refractive errors in chickens 35: 1247
The effect of vasoactive intestinal peptide on development of form deprivation myopia in the chick: a pharmacological and immunocytochemical study 35: 1265
Reduced extracellular matrix in mammalian sclera with induced myopia 35: 1271
How applicable are animal myopia models to human juvenile onset myopia? 35: 1283
Does experimentally-induced amblyopia cause hyperopia in monkeys? 35: 1289
A dynamic relationship between myopia and blur-driven accommodation in school-aged children 35: 1299
The effect of topical ß-adrenoceptor antagonists on accommodation in emmetropia and myopia 35: 1305
Reduction of infant myopia: a longitudinal cycloplegic study 35: 1313
Emmetropisation in human infancy: rate of change is related to initial refractive error 35: 1325
The course of myopia in children with mild retinopathy of prematurity 35: 1329
The duration of normal visual exposure necessary to prevent form deprivation myopia in chicks 35: 1337
The utility of three predictors of childhood myopia: a Bayesian analysis 35: 1345
Correlations between familial refractive error and children's non-cycloplegic refractions 35: 1353
Formoguanamine-induced inhibition of deprivation myopia in chick is accompanied by choroidal thinning while retinal function is retained 35: 2075

NATURAL IMAGES
What's constant in contrast constancy? The effects of scaling on the perceived contrast of bandpass patterns 35: 739

NEURAL NETWORKS
Network simulations of retinal and cortical contributions to color constancy 35: 413
Are laws that govern behavior embedded in the structure of the CNS? The case of Hering's law 35: 3207

NEUROANATOMY
High-pass resolution perimetry: central-field neuroretinal correlates 35: 293
Functional diversity of neural organization in insect ocellar systems 35: 443
Nature of the pupillary responses evoked by chromatic flashes on a white background 35: 897
The relationship of choroidal blood flow and accommodation to the control of ocular growth 35: 1227
A Bayesian framework for understanding texture segmentation in the primary visual cortex 35: 2643
Are laws that govern behavior embedded in the structure of the CNS? The case of Hering's law 35: 3207

NEUROCHEMISTRY
Cholinergic modulation of synaptic transmission in the rat visual cortex *in vitro* 35: 25
The contributions of ON- and OFF-pathways to contrast sensitivity and spatial resolution in goldfish 35: 103
Are retinal or mesencephalic dopaminergic systems involved in monocular optokinetic nystagmus asymmetry in frog? 35: 381
Phosphatidyl inositol-phospholipase C in squid photoreceptor membrane is activated by stable metarhodopsin via GTP-binding protein, Gq 35: 1011
The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks 35: 1141
Studies on the role of the retinal dopamine/melatonin system in experimental refractive errors in chickens 35: 1247
The effect of vasoactive intestinal peptide on development of form deprivation myopia in the chick: a pharmacological and immunocytochemical study 35: 1265
Contrast sensitivity and spatial frequency response of primate cortical neurons in and around the cytochrome oxidase blobs 35: 1501
Horizontal cells function normally in ethambutol-treated goldfish 35: 1667
In vitro changes in back vertex distance of chick and pigeon lenses: species differences and the effects of aging 35: 1813
Effect of 2-amino-4-phosphonobutyrate on ERG OFF-response after glycinergic and GABAergic blockade 35: 1945
Differential effects of dopamine depletion on the distribution of [^{3}H]SCH 23390 and [^{3}H]spiperone binding sites in the goldfish retina 35: 2409
Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
Different effects of dopamine and Piribedil (a dopamine D_2 agonist) on frog monocular optokinetic nystagmus asymmetry 35: 2665

NEUROTRANSMITTER (*see* NEUROCHEMISTRY)

NOISE
Detecting a trajectory embedded in random-direction motion noise 35: 65
Induced twinkle aftereffect as a probe of dynamic visual processing mechanisms 35: 757
A labeled lines explanation of the perceived spatial frequency of moderate-, near-threshold- and zero-contrast spatial patterns 35: 1025
Bayesian analysis of identification performance in monkey visual cortex: nonlinear mechanisms and stimulus certainty 35: 2723
Human efficiency for recognizing 3-D objects in luminance noise 35: 3053

OCCLUSION
Orientation and color processing for partially occluded objects 35: 647
The duration of normal visual exposure necessary to prevent form deprivation myopia in chicks 35: 1337

OCULAR DIMENSIONS
Effects of stationary and moving textured backgrounds on the visuo-oculo-manual tracking in humans 35: 837
A four-surface schematic eye of macaque monkey obtained by an optical method 35: 2245
Unequal amplitude saccades produced by aniseikonic patterns: effects of viewing distance 35: 3459
Unequal saccades produced by aniseikonic patterns: a model approach 35: 3473

OCULAR PIGMENTS
Rayleigh matches and unique green 35: 613

OPTIC TECTUM
A field theory of saccade generation: temporal-to-spatial transform in the superior colliculus 35: 3313

OPTICAL QUALITY
Measurement of monochromatic ocular aberrations of human eyes as a function of accommodation by the Howland aberroscope technique 35: 313

ORIENTATION PERCEPTION
Sensitivity to orientation modulation in micropattern-based textures 35: 79
Local and global factors in spatially-contingent coloured aftereffects 35: 207
Orientation discrimination in cyclopean vision 35: 365
Preattentive equivalence of multicomponent Gabor textures in the central and peripheral visual field 35: 495
Perceptual learning in vernier acuity: what is learned? 35: 519
Feature-specific effects of selective visual attention 35: 621
Orientation and color processing for partially occluded objects 35: 647
Orientation contrast vs orientation in line-target detection 35: 733
A reflectometric technique for assessing photoreceptor alignment 35: 999
Vernier acuity during image rotation and translation: visual performance limits 35: 1951
Detection of orientationally multimodal textures 35: 1991
Attentional effort modulated by task difficulty 35: 2169
Orientation anisotropy in vernier acuity 35: 2449
Orientation, density and size as cues to texture segmentation in kittens 35: 2463
Alignment ability of strabismic and eye enucleated subjects on the horizontal and oblique meridians 35: 2523
Mechanisms of purely subjective contour tilt aftereffects 35: 2547
The perceived orientation of aliased lines 35: 2759
Investigating simple and complex mechanisms in texture segregation using the speed-accuracy tradeoff method 35: 2825
Discrimination of orientation-defined texture edges 35: 2863
An illusion of relative motion dependent upon spatial frequency and orientation 35: 3093

PATHOLOGY
Ocular motor abnormalities in achiasmatic mutant Belgian sheepdogs: unyoked eye movements in a mammal 35: 109
Motion perception deficits from midline cerebellar lesions in human 35: 723
Accommodation in humans with juvenile macular degeneration 35: 873
Inducing ametropias in hatchling chicks by defocus--aperture effects and cylindrical lenses 35: 1165
The course of myopia in children with mild retinopathy of prematurity 35: 1329
Enhanced S cone syndrome: evidence for an abnormally large number of S cones 35: 1473
Contrast sensitivity and coherent motion detection measured at photopic luminance levels in dyslexics and controls 35: 1483

Visual acuity vs letter contrast sensitivity in retinitis pigmentosa 35: 1495
Symmetry discrimination in patients with retinitis pigmentosa 35: 1633
Contour interaction in the presence of congenital nystagmus 35: 1785
Peripheral cone contrast sensitivity in glaucoma 35: 1791
The effects of random element loss on letter identification: implications for visual acuity loss in patients with retinitis pigmentosa 35: 2057
A comparison of temporal integration in children with a specific reading disability and normal readers 35: 2067
The inverted face inversion effect in prosopagnosia: evidence for mandatory, face-specific perceptual mechanisms 35: 2089
Motion perception deficits in glaucomatous optic neuropathy 35: 2225
The effects of afferent stimulation on congenital nystagmus foveation periods 35: 2371
The electroretinographic diagnosis of the incomplete form of congenital stationary night blindness 35: 2383
Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
Phototransduction in human cones measured using the *a*-wave of the ERG 35: 2801
Effect of retinal image motion on visual acuity and contour interaction in congenital nystagmus 35: 3071
Regulation of static and dynamic ocular alignment in patients with trochlear nerve pareses 35: 3255

PERIPHERAL VISION
1st- and 2nd-order motion and texture resolution in central and peripheral vision 35: 59
Preattentive equivalence of multicomponent Gabor textures in the central and peripheral visual field 35: 495
Relationship between visual sensitivity and target localization in older adults 35: 579
Neural modulation transfer function of the human visual system at various eccentricities 35: 767
Refraction, aliasing, and the absence of motion reversals in peripheral vision 35: 939
The non-visual impact of eye orientation on eye-hand coordination 35: 1611
Perceptual learning in parafoveal vision 35: 1679
Peripheral cone contrast sensitivity in glaucoma 35: 1791
The effect of flicker on foveal and peripheral thresholds for oscillatory motion 35: 2179
Stereopsis, spatial frequency and retinal eccentricity 35: 2329
Temporal coherence theory for the detection and measurement of visual motion 35: 3183

PERSISTENCE (*see also* AFTEREFFECTS)
A comparison of temporal integration in children with a specific reading disability and normal readers 35: 2067
A target in real motion appears blurred in the absence of other proximal moving targets 35: 2315
The spatiotemporal range of inhibitory interaction in flicker detection 35: 3015

PHASE SENSITIVITY
Preattentive equivalence of multicomponent Gabor textures in the central and peripheral visual field 35: 495
Phase-reversal discrimination in one and two dimensions: performance is limited by spatial repetition, not spatial frequency content 35: 2157
Effects of luminance contrast and phase difference on motion assimilation for sinusoidal gratings 35: 2277

PHOTOPIC VISION
Inducing ametropias in hatchling chicks by defocus--aperture effects and cylindrical lenses 35: 1165

Contrast sensitivity and coherent motion detection measured at photopic luminance levels in dyslexics and controls 35: 1483

PHOTOPIGMENTS
Genetic basis of photopigment variations in human dichromats 35: 2095
Polymorphism in the number of genes encoding long-wavelength-sensitive cone pigments among males with normal color vision 35: 2395
Variation in color matching and discrimination among deuteranomalous trichromats: theoretical implications of small differences in photopigments 35: 2579
Photoreceptor spectral sensitivities: common shape in the long-wavelength region 35: 3083

PHOTORECEPTORS (*see also* CONES; RODS)
Photoreceptor sensitivity changes explain color appearance shifts induced by large uniform backgrounds in dichoptic matching 35: 239
A reflectometric technique for assessing photoreceptor alignment 35: 999
Phosphatidyl inositol-phospholipase C in squid photoreceptor membrane is activated by stable metarhodopsin via GTP-binding protein, Gq 35: 1011
A role for photoreceptor outer segments in the induction of deprivation myopia 35: 1217
Differential effects of dopamine depletion on the distribution of [^{3}H]SCH 23390 and [^{3}H]spiperone binding sites in the goldfish retina 35: 2409
Photoreceptor spectral sensitivities: common shape in the long-wavelength region 35: 3083

PLASTICITY
Interocular transfer of receptive field expansion in cat visual cortex 35: 1
Does saccadic undershoot minimize saccadic flight-time? A Monte-Carlo study 35: 691
Plasticity of human motion processing mechanisms following surgery for infantile esotropia 35: 3279
Binocular interactions in rapid saccadic adaptation 35: 3439
Rapid gain adaptation affects the dynamics of saccadic eye movements in humans 35: 3451

POLARIZED LIGHT
Spatiotemporal characterization of a Fourier and Non-Fourier Motion System 35: 907
Underwater refraction-polarization patterns of skylight perceived by aquatic animals through Snell's window of the flat water surface 35: 1651

PUPILS
Nature of the pupillary responses evoked by chromatic flashes on a white background 35: 897
The form of the human pupil 35: 2021
A pupillometric correlate of scotopic visual acuity 35: 2235
Absence of adaptive plasticity after voluntary vergence and accommodation 35: 2773

REACTION TIME
Saccades to large coloured targets stepping in open fields 35: 263
Temporal thresholds and reaction time to changes in velocity of visual motion 35: 355
Gap duration and location of attention focus modulate the occurrence of left/right asymmetries in the saccadic reaction times of human subjects 35: 987
"Express" smooth pursuit 35: 1459
Changes in retinal time scale under background light: observations on rods and ganglion cells in the frog retina 35: 2255
Intertrial effects of randomization on saccadic reaction times in human observers 35: 2615

Saccadic reaction times in gap/overlap paradigms: a model based on integration of intentional and visual information on neural, dynamic fields 35: 2911
Saccade latency toward auditory targets depends on the relative position of the sound source with respect to the eyes 35: 3305
Gap-overlap effects on latencies of saccades, vergence and combined vergence-saccades in humans 35: 3373

READING
The effects of spatial filtering and contrast reduction on visual search times in good and poor readers 35: 285
Saccadic eye movements while reading music 35: 1447
Psychophysics of reading--XIII. Predictors of magnifier-aided reading speed in low vision 35: 1931
Printed cards for measuring low-vision reading speed 35: 1939
The effects of random element loss on letter identification: implications for visual acuity loss in patients with retinitis pigmentosa 35: 2057
A comparison of temporal integration in children with a specific reading disability and normal readers 35: 2067
Human efficiency for recognizing 3-D objects in luminance noise 35: 3053

RECEPTIVE FIELDS *(see also individual cell types)*
Interocular transfer of receptive field expansion in cat visual cortex 35: 1
Receptive fields of P and M ganglion cells across the primate retina 35: 7
The optimal motion stimulus 35: 325
What's constant in contrast constancy? The effects of scaling on the perceived contrast of bandpass patterns 35: 739
Bayesian analysis of identification performance in monkey visual cortex: nonlinear mechanisms and stimulus certainty 35: 2723
Investigating simple and complex mechanisms in texture segregation using the speed-accuracy tradeoff method 35: 2825

RECEPTOR POTENTIAL (*see* CONES; ELECTRORETINOGRAM; PHOTORECEPTORS; RODS)

REFRACTION
Moving the retina: choroidal modulation of refractive state 35: 37
Refraction, aliasing, and the absence of motion reversals in peripheral vision 35: 939
The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks 35: 1141
Inducing ametropias in hatchling chicks by defocus--aperture effects and cylindrical lenses 35: 1165
Choroidal and scleral mechanisms of compensation for spectacle lenses in chicks 35: 1175
Photoperiod, early post-natal eye growth, and visual deprivation 35: 1195
Constant light produces severe corneal flattening and hyperopia in chickens 35: 1203
Differences in eye growth and the response to visual deprivation in different strains of chicken 35: 1211
Studies on the role of the retinal dopamine/melatonin system in experimental refractive errors in chickens 35: 1247
How applicable are animal myopia models to human juvenile onset myopia? 35: 1283
Does experimentally-induced amblyopia cause hyperopia in monkeys? 35: 1289
A dynamic relationship between myopia and blur-driven accommodation in school-aged children 35: 1299
The effect of topical ß-adrenoceptor antagonists on accommodation in emmetropia and myopia 35: 1305
Reduction of infant myopia: a longitudinal cycloplegic study 35: 1313

Emmetropisation in human infancy: rate of change is related to initial refractive error 35: 1325
The duration of normal visual exposure necessary to prevent form deprivation myopia in chicks 35: 1337
The utility of three predictors of childhood myopia: a Bayesian analysis 35: 1345
Correlations between familial refractive error and children's non-cycloplegic refractions 35: 1353
The equivalent refractive index of the crystalline lens in childhood 35: 1565
Underwater refraction-polarization patterns of skylight perceived by aquatic animals through Snell's window of the flat water surface 35: 1651
The absence of a photopic influence on the refractive development of the embryonic eye of the clearnose skate *(Raja eglanteria)* 35: 1675
Continuous gradient index and shell models of the human lens 35: 2529
Absence of adaptive plasticity after voluntary vergence and accommodation 35: 2773
Rotation of Listing's plane by horizontal, vertical and oblique prism-induced vergence 35: 3243

RETINA
Receptive fields of P and M ganglion cells across the primate retina 35: 7
Moving the retina: choroidal modulation of refractive state 35: 37
Computational studies on the interaction between red cone and H1 horizontal cell 35: 149
Network simulations of retinal and cortical contributions to color constancy 35: 413
Evidence for two sites of adaptation affecting the dark-adapted ERG of cats and primates 35: 435
Neural modulation transfer function of the human visual system at various eccentricities 35: 767
The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks 35: 1141
The course of myopia in children with mild retinopathy of prematurity 35: 1329
Correlation of dynamic responses in the ON bipolar neuron and the *b*-wave of the electroretinogram 35: 1359
Enhanced S cone syndrome: evidence for an abnormally large number of S cones 35: 1473
The focal cone electroretinogram 35: 1641
Horizontal cells function normally in ethambutol-treated goldfish 35: 1667
Patterns of rod proliferation in deep-sea fish retinae 35: 1799
Effect of 2-amino-4-phosphonobutyrate on ERG OFF-response after glycinergic and GABAergic blockade 35: 1945
Formoguanamine-induced inhibition of deprivation myopia in chick is accompanied by choroidal thinning while retinal function is retained 35: 2075
Changes in retinal time scale under background light: observations on rods and ganglion cells in the frog retina 35: 2255
The electroretinographic diagnosis of the incomplete form of congenital stationary night blindness 35: 2383
Differential effects of dopamine depletion on the distribution of [^{3}H]SCH 23390 and [^{3}H]spiperone binding sites in the goldfish retina 35: 2409
Phototransduction in human cones measured using the *a*-wave of the ERG 35: 2801
Visual mislocalization produced by a rapid image displacement on the retina: examination by means of dichoptic presentation of a target and its background scene 35: 3021

RETINAL DISEASE (*see* PATHOLOGY)

ROD-CONE INTERACTION (*see* CONES; RODS)

RODS
Patterns of rod proliferation in deep-sea fish retinae 35: 1799

Changes in retinal time scale under background light: observations on rods and ganglion cells in the frog retina 35: 2255

SACCADES (*see* EYE-MOVEMENTS, SACCADIC)

SACCADIC SUPPRESSION (*see* SUPPRESSION)

SATURATION
Network simulations of retinal and cortical contributions to color constancy 35: 413
The prediction of hue and saturation for non-spectral lights 35: 2967

SCHEMATIC EYE (*see* OCULAR DIMENSIONS)

SCOTOPIC VISION
Evidence for two sites of adaptation affecting the dark-adapted ERG of cats and primates 35: 435
The processing of temporal modulation at different levels of retinal illuminance 35: 775
A pupillometric correlate of scotopic visual acuity 35: 2235

SEGMENTATION
Recovering three-dimensional structure from motion with surface reconstruction 35: 117
Structure-from-motion: perceptual evidence for surface interpolation 35: 139
Visual processing of motion boundaries 35: 807
Orientation, density and size as cues to texture segmentation in kittens 35: 2463

SHORT-WAVELENGTH-SENSITIVITY PATHWAY
Detection of blue under chromatic adaptation: the effects of stimulus size and eccentricity 35: 589

SIZE PERCEPTION
D_{max} for stereopsis depends on size, not spatial frequency content 35: 1061
An exponential pyramid model of the time-course of size processing 35: 1089
Visual processing of looming and time to contact throughout the visual field 35: 1845
Orientation, density and size as cues to texture segmentation in kittens 35: 2463

SPATIAL FREQUENCY (*see also* PHASE SENSITIVITY)
1st- and 2nd-order motion and texture resolution in central and peripheral vision 35: 59
The effects of spatial filtering and contrast reduction on visual search times in good and poor readers 35: 285
Measuring the spatial frequency selectivity of second-order texture mechanisms 35: 915
Individual differences in contrast sensitivity functions: longitudinal study of 4-, 6-, and 8-month-old human infants 35: 961
A labeled lines explanation of the perceived spatial frequency of moderate-, near-threshold- and zero-contrast spatial patterns 35: 1025
Fine-to-coarse scale disambiguation in stereopsis 35: 1047
D_{max} for stereopsis depends on size, not spatial frequency content 35: 1061
Contrast sensitivity and spatial frequency response of primate cortical neurons in and around the cytochrome oxidase blobs 35: 1501
Adaptation mechanisms in spatial vision--I. Bleaches and backgrounds 35: 1585
Adaptation mechanisms in spatial vision--II. Flash thresholds and background adaptation 35: 1595
The effect of contrast adaptation on briefly presented stimuli 35: 1721
Modeling pedestal experiments with amplitude instead of contrast 35: 1979
Phase-reversal discrimination in one and two dimensions: performance is limited by spatial repetition, not spatial frequency content 35: 2157
Stereopsis, spatial frequency and retinal eccentricity 35: 2329

Modelling the increase of contrast sensitivity with grating area and exposure time 35: 2339
Increasing doses of *l*-sulpiride reveal dose- and spatial frequency-dependent effects of D2 selective blockade in the human electoretinogram 35: 2659
Discrimination of compound gratings: spatial-frequency channels or local features? 35: 2685
Bayesian analysis of identification performance in monkey visual cortex: nonlinear mechanisms and stimulus certainty 35: 2723
Spatial frequency channels in experimentally strabismic monkeys revealed by oblique masking 35: 2737
Human efficiency for recognizing and detecting low-pass filtered objects 35: 2955
An illusion of relative motion dependent upon spatial frequency and orientation 35: 3093

SPATIAL VISION (*see also* PHASE SENSITIVITY)
1st- and 2nd-order motion and texture resolution in central and peripheral vision 35: 59
The contributions of ON- and OFF-pathways to contrast sensitivity and spatial resolution in goldfish 35: 103
Spatiotemporal visual response to suprathreshold stimuli 35: 227
High-pass resolution perimetry: central-field neuroretinal correlates 35: 293
The optimal motion stimulus 35: 325
Spatial attention and vernier acuity 35: 337
Orientation discrimination in cyclopean vision 35: 365
Spatial displacement, but not temporal asynchrony, destroys figural binding 35: 491
Preattentive equivalence of multicomponent Gabor textures in the central and peripheral visual field 35: 495
Feature-specific effects of selective visual attention 35: 621
Context effects on perceived position: sustained and transient temporal influences on spatial interactions 35: 635
Spatiotemporal characterization of a Fourier and Non-Fourier Motion System 35: 907
Adaptation mechanisms in spatial vision--I. Bleaches and backgrounds 35: 1585
Adaptation mechanisms in spatial vision--II. Flash thresholds and background adaptation 35: 1595
Phase-reversal discrimination in one and two dimensions: performance is limited by spatial repetition, not spatial frequency content 35: 2157
Attentional effort modulated by task difficulty 35: 2169
The use of egocentric and exocentric location cues in saccadic programming 35: 2191
The effects of spatiotemporal integration on maximum displacement thresholds for the detection of coherent motion 35: 2287
Modelling the increase of contrast sensitivity with grating area and exposure time 35: 2339
Bayesian analysis of identification performance in monkey visual cortex: nonlinear mechanisms and stimulus certainty 35: 2723
Perceptual consequences of ocular lens overshoot during saccadic eye movements 35: 2897
The spatiotemporal range of inhibitory interaction in flicker detection 35: 3015

SPECTRAL SENSITIVITY
Spectral characteristics of blink suppression in normal observers 35: 2569
Photoreceptor spectral sensitivities: common shape in the long-wavelength region 35: 3083

SPEED (*see* MOTION PERCEPTION (SPEED SENSITIVITY))

SPHERICAL ABERRATION (*see* ABERRATION)

STEREOPSIS
Stereopsis due to luminance differences in the two eyes 35: 255

Stereopsis and binocularity in the squirrel monkey 35: 345
Orientation discrimination in cyclopean vision 35: 365
Depth discrimination of a crowded line is better when it is more luminant than the lines crowding it 35: 657
Stereopsis, vertical disparity and relief transformations 35: 703
Contrast and assimilation on different depth planes 35: 881
Speed discrimination of motion-in-depth using binocular cues 35: 885
On the accuracy of surface reconstruction from disparity interpolation 35: 949
Fine-to-coarse scale disambiguation in stereopsis 35: 1047
D_{max} for stereopsis depends on size, not spatial frequency content 35: 1061
On the time-course of inhibition in the stereoscopic perception of rows of dots 35: 1393
Interaction of stereo and texture cues in the perception of three-dimensional steps 35: 1463
Measurements of geometric illusions, illusory contours and stereo-depth at luminance and colour contrast 35: 1713
Behavioral studies of local stereopsis and disparity vergence in monkeys 35: 1755
Stereopsis, spatial frequency and retinal eccentricity 35: 2329
Reversals of the colour-depth illusion explained by ocular chromatic aberration 35: 2675
Natural problems for stereoscopic depth perception in virtual environments 35: 2731
Fast perceptual learning in hyperacuity 35: 3003
Human efficiency for recognizing 3-D objects in luminance noise 35: 3053
Colour induced stereopsis in images with achromatic information and only one other colour 35: 3161

STRABISMUS (*see also* AMBLYOPIA)
Does experimentally-induced amblyopia cause hyperopia in monkeys? 35: 1289
Alignment ability of strabismic and eye enucleated subjects on the horizontal and oblique meridians 35: 2523
Spatial frequency channels in experimentally strabismic monkeys revealed by oblique masking 35: 2737
Control of vertical eye alignment in three-dimensional space 35: 3169
Regulation of static and dynamic ocular alignment in patients with trochlear nerve pareses 35: 3255
Excess cyclovergence in patients with intermittent exotropia 35: 3265
Plasticity of human motion processing mechanisms following surgery for infantile esotropia 35: 3279

SUPPRESSION
Spectral characteristics of blink suppression in normal observers 35: 2569
Perceptual consequences of ocular lens overshoot during saccadic eye movements 35: 2897
Optokinetic nystagmus (OKN) suppression by fixation of a stabilized target: the effect of OKN-stimulus predictability 35: 2903

TECHNIQUES
Interobserver agreement for measurement of grating acuity and interocular acuity differences with the Teller acuity card procedure 35: 303
Measurement of monochromatic ocular aberrations of human eyes as a function of accommodation by the Howland aberroscope technique 35: 313
Evidence for two sites of adaptation affecting the dark-adapted ERG of cats and primates 35: 435
Object classification for human and ideal observers 35: 549
A reflectometric technique for assessing photoreceptor alignment 35: 999
Isolation and characteristics of a steady-state visually-evoked potential in humans related to the motion of a stimulus 35: 1365
A covariance structure analysis of flicker sensitivity 35: 1575

The focal cone electroretinogram 35: 1641
Assessment of vernier acuity development using the "equivalent intrinsic blur" paradigm 35: 1879
Printed cards for measuring low-vision reading speed 35: 1939
A four-surface schematic eye of macaque monkey obtained by an optical method 35: 2245
Adaptive psychophysical procedures 35: 2503
Effect of repeat use and coating defects of gold foil electrodes on electroretinogram recording 35: 2795
Temporal coherence theory for the detection and measurement of visual motion 35: 3183

TEMPORAL DISCRIMINATION
Spatial displacement, but not temporal asynchrony, destroys figural binding 35: 491
Temporal and chromatic properties of motion mechanisms 35: 1547
The effects of spatiotemporal integration on maximum displacement thresholds for the detection of coherent motion 35: 2287
Modelling the increase of contrast sensitivity with grating area and exposure time 35: 2339
The spatiotemporal range of inhibitory interaction in flicker detection 35: 3015
Temporal coherence theory for the detection and measurement of visual motion 35: 3183

TEMPORAL FREQUENCY
Apparent speed of sampled motion 35: 1375
A covariance structure analysis of flicker sensitivity 35: 1575
The effect of contrast adaptation on briefly presented stimuli 35: 1721
Temporal filtering enhances direction discrimination in random-dot patterns 35: 2105
The effect of flicker on foveal and peripheral thresholds for oscillatory motion 35: 2179
Changes in retinal time scale under background light: observations on rods and ganglion cells in the frog retina 35: 2255
Effects of flicker adaptation and temporal gain control on the flicker ERG 35: 2943

TEXTURE PERCEPTION
1st- and 2nd-order motion and texture resolution in central and peripheral vision 35: 59
Sensitivity to orientation modulation in micropattern-based textures 35: 79
Preattentive equivalence of multicomponent Gabor textures in the central and peripheral visual field 35: 495
Effects of stationary and moving textured backgrounds on the visuo-oculo-manual tracking in humans 35: 837
Measuring the spatial frequency selectivity of second-order texture mechanisms 35: 915
Interaction of stereo and texture cues in the perception of three-dimensional steps 35: 1463
Detection of orientationally multimodal textures 35: 1991
Effects of a static textured background on motion integration 35: 2303
Orientation, density and size as cues to texture segmentation in kittens 35: 2463
A Bayesian framework for understanding texture segmentation in the primary visual cortex 35: 2643
Investigating simple and complex mechanisms in texture segregation using the speed-accuracy tradeoff method 35: 2825
Discrimination of orientation-defined texture edges 35: 2863

THRESHOLD (*see* CONTRAST SENSITIVITY; DETECTION THRESHOLD; INCREMENT THRESHOLD)

TRITANOPIA (*see* DICHROMACY)

VELOCITY (*see* MOTION PERCEPTION (SPEED SENSITIVITY))

VERNIER ACUITY (*see* HYPERACUITY)

VISUAL DIRECTION
Asymmetric spatial distributions of motion vectors yield characteristic errors in direction judgements 35: 1541

WAVELENGTH DISCRIMINATION (*see* COLOR DISCRIMINATION)

TYPESET AND PRINTED IN GREAT BRITAIN BY PAGE BROS, NORWICH